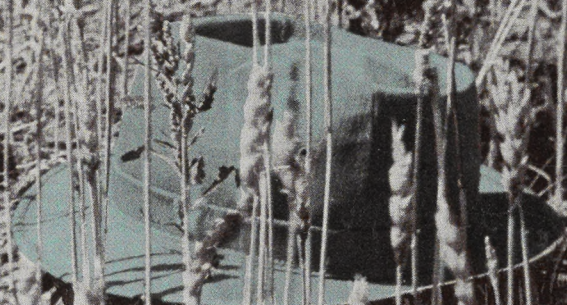


SASKATCHEWAN WHEAT POOL

# VARIETY TESTS

1961





The cover photograph, taken near Estevan in early fall, was characteristic of many fields in the south-east part of the province in 1961. The deep shadow under the hat indicates the intense heat of the summer sun.

# SASKATCHEWAN WHEAT POOL

## VARIETY TESTS

WHEAT, OATS and BARLEY

1961



Published by

SASKATCHEWAN WHEAT POOL

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# FOREWORD

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BY THE PRESIDENT OF THE SASKATCHEWAN WHEAT POOL

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*The year 1961 was full of disappointment and frustration for Saskatchewan farmers. Severe drought conditions, together with widespread insect damage combined to reduce crop yields drastically in the major portion of the province while in some areas little or no crop was harvested for grain.*

*The season did, however, illustrate some useful points about good farming practices. The fact that wheat yields in the province averaged more than eight bushels per acre, compared to an average of two and a half bushels in 1937, when rainfall was similar, attests to the improvement in moisture conservation techniques used by farmers.*

*The season also drew attention to those grain varieties best adapted to conditions of drought, which history has shown to be characteristic of this province. It served as a reminder to farmers, plant breeders, conservationists, and all concerned with the agricultural industry, that there can be no relaxation of vigilance in the continued use of the best farming techniques.*

*Because they were grown under field conditions, many of the 1961 variety tests suffered damage or destruction from the same causes which affected field crops. The young farm men and women who conducted these tests were understandably disappointed. To these, and to the supervisors whose tests were successful, I would like to express, on behalf of the Saskatchewan Wheat Pool, sincere appreciation for their contribution of time and effort which mean so much to the success of a testing project of this type.*

*Chas. G. Gilling*

# Introduction

This report summarizes the results of more than three hundred cereal variety tests located throughout the grain growing area of the province in 1961. The tests are designed to compare the value of several grain varieties grown side by side under various growing conditions which exist in the province. Each test is conducted by a young farm man or woman who does the work on a voluntary basis.

The results have been assembled in this booklet in such a way that a reader who is interested in a particular area or a particular crop can readily find the section dealing with it. A detailed table of contents shows the page number of each section. An alphabetical index at the end of the booklet will assist the reader to find any individual test. For quick reference, yield information in chart form is given on page 14 for wheat, page 32 for oats and page 45 for barley. A brief summary of conclusions can be found on page 8.

The following table shows the type of tests conducted in 1961 and the varieties included in each:

Project	No. of Tests	Varieties
Wheat.....	124	Thatcher, Canthatch, Selkirk, Pembina, Lake
Oats.....	79	Garry, Rodney, Exeter, Glen, Russell
Barley.....	114	Jubilee, Keystone, Hannchen, Betzes, Palliser
Total.....	317	

## ORGANIZATION OF THE TESTING PROGRAM

Selection of the varieties to be tested, and planning for the project was done with the advice and help of the Field Husbandry Department of the University of Saskatchewan. Valuable assistance was given by Dr. W. J. White, Head of the Department, and by Drs. D. R. Knott and E. N. Larter. Threshing, summarizing and statistical analysis were carried on at the Head Office of the Wheat Pool under the direction of A. D. McLeod, B.S.A.

In planning the project an attempt was made to locate tests with reasonable uniformity throughout the grain growing area of the province. Each individual test was conducted by a young farm man or woman selected for the work by the Wheat Pool delegate in each sub-district. The interest and enthusiasm of these young people contributed substantially to the success of the project.

Seed and equipment for each test were prepared at the Head Office of the Wheat Pool and mailed to the supervisors with complete instructions for seeding. During the growing season each supervisor was asked to complete three progress reports comparing the varieties at various stages of growth. A rain gauge was supplied to each supervisor to enable him to measure and record the amount of rainfall during the four-month growing season. In the fall each test was harvested, dried, wrapped in paper and shipped to the Head Office of the Wheat Pool for threshing and yield calculation. This report was prepared on the basis of threshing results together with information gained from reports completed by supervisors and delegates.

## DESCRIPTION OF TESTS

The diagram on page 6 shows the layout of a typical wheat test. Barley and oat tests were similar in size and plan. Each test consisted of 44 rows, each 16½ feet long and spaced 12 inches apart. Five varieties were included in each test and each variety was repeated (replicated) four times. Each replicate included a pair of rows, to give a total of 40 test rows. In addition two rows were seeded at each end of the test for protection purposes. The whole test was surrounded by a double row of winter wheat. When harvesting, each pair of test rows was made into a single sheaf, and the twenty sheaves were each threshed and weighed separately.



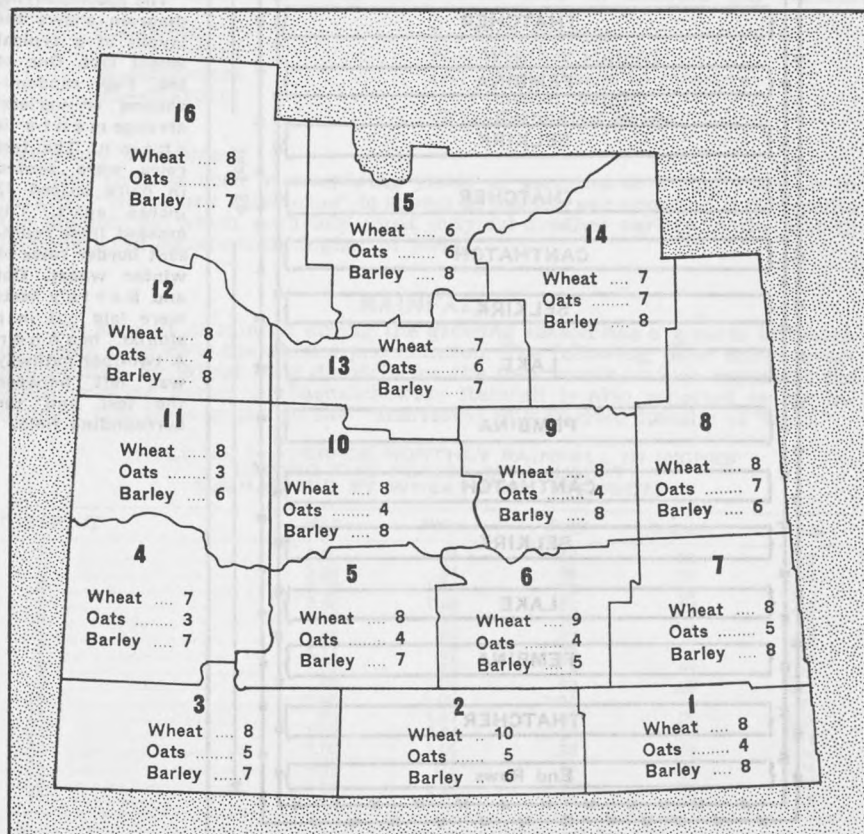
## FACTS TO BE REMEMBERED IN READING RESULTS

Growing conditions and hazards which limit grain production vary widely from one area of the province to another and from one year to another. In some areas crop hazards such as rust, frost, sawfly damage or drought can be expected to occur in most years. In some other areas the frequency of occurrence or severity of these hazards may vary considerably, depending on particular conditions in any one year. For example the area east of the third meridian and south of township 30 is often referred to as the rust area, yet in 1954 rust extended as far northwest as North Battleford. Similarly frost damage may be expected to occur with some regularity in northern areas, yet in 1950 crops over most of the province suffered severe frost damage. When considering the best variety to be grown at any location, a grower must consider the possibility of occurrence of various hazards and select varieties which have the necessary resistance to these hazards.

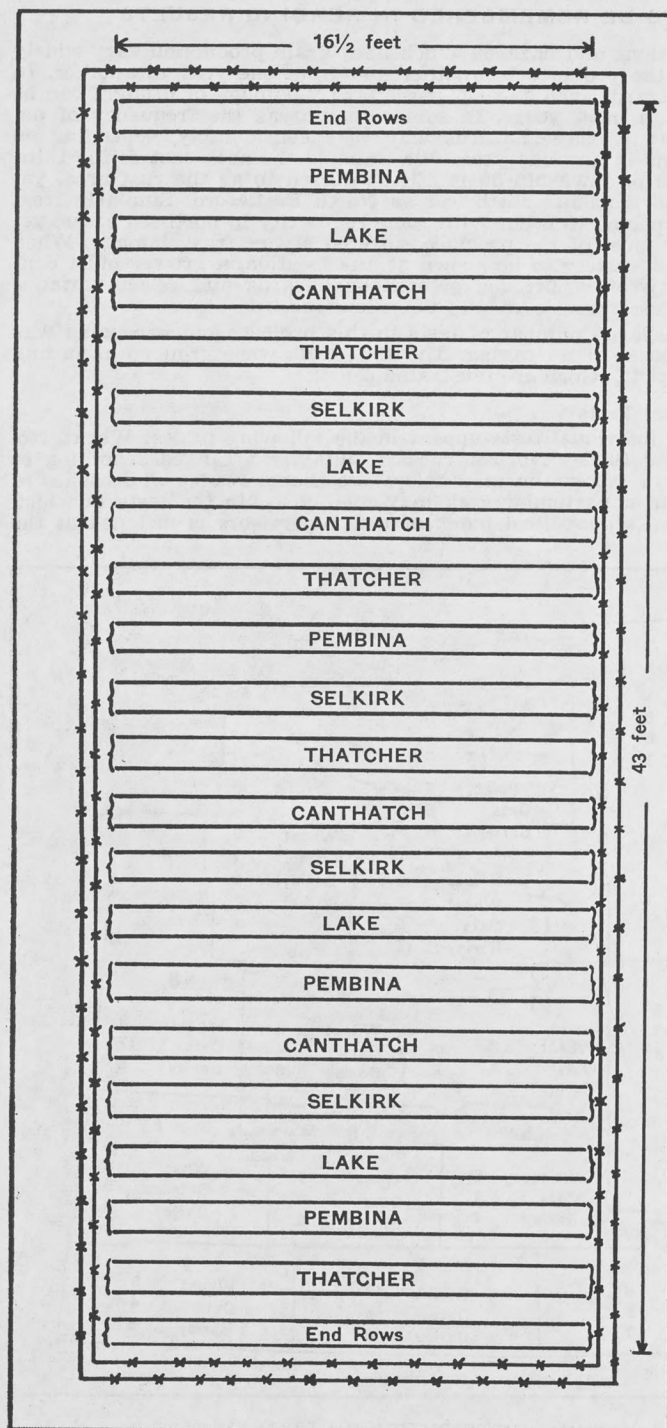
Because of the large number of tests in this project, some grouping was necessary for purposes of averaging. The 1961 tests were grouped according to Wheat Pool districts, which are illustrated below.

### Results of Individual Tests

The results of individual tests appear in the following tables: Wheat, No. 8; Oats No. 15; and Barley No. 23. These results are arranged according to Wheat Pool districts (shown on map below), so that a reader who wishes to study the results in a particular area may readily locate the tests in which he is interested. An alphabetical index of test supervisors is included at the



MAP SHOWING DISTRIBUTION OF TESTS IN 1961



#### PLAN OF TEST

The accompanying diagram shows the layout of a typical wheat test. One of the five randomizations or varietal arrangements is shown. The test rows were seeded in pairs spaced 12 inches apart. The crossed lines represent border rows of winter wheat. Oat and barley tests were laid out in a similar manner. A two-foot pathway was left between the test and the surrounding field.



back of the booklet so that any individual test can be located. It should be emphasized that the results of a single test give an accurate comparison of the varieties only under the conditions which exist on the farm where the test is located. Results may differ widely, even in tests grown relatively close together. This variation may be due to difference in soil type, climatic conditions, date of seeding or other causes.

### Straw Strength

Straw strength was reported on the basis of 1-9. If the plants were straight and erect, the strength of straw was recorded as 1. If the straw showed signs of weakness a higher number was used, depending upon the degree of weakness observed.

### Neck Strength

This term appears only in connection with barley tests. Neck strength was recorded on the basis of 1, 2 and 3 where 1 indicated a strong neck holding the head upright, 2 indicated a neck of medium strength and 3 indicated weakness in the neck.

### Grading Remarks

In determining commercial grades, bushel weight is an important consideration. However, there are many other factors which may lower the grade of a sample. In the individual results, the column headed "Grading Remarks" contain abbreviations used to indicate defects other than bushel weight, which appear in the sample of grain.

The following abbreviations have been used to indicate the various defects:

G.—Green	T.—Thin kernels
I.—Immature	W.—Weather stained
S.—Shrunken	(A)—Insufficient to measure bushel weight
St.—Starchy	(E)—Estimated grade

### Necessary Difference

This term is used in comparing yields of varieties in a single test or in an area. "Necessary Difference" is shown in bushels per acre and it represents the amount by which a variety must outyield another variety in the test to be considered significantly higher in yield.

## RAINFALL

The amount of rainfall during the growing season has a greater influence on yields than does the annual precipitation. The following table shows average rainfall by Wheat Pool districts for the four months which represent the grain growing period in Saskatchewan. Rainfall is also reported on an individual test basis in the section "Individual Summarized Results of Tests."

TABLE No. 1—AVERAGE MONTHLY RAINFALL IN INCHES  
DURING THE PERIOD MAY-AUGUST  
SUMMARIZED BY WHEAT POOL DISTRICTS

DISTRICT	May	June	July	August	Total
1 .....	1.25	.74	.98	.01	3.27
2 .....	1.82	.84	.95	.07	3.47
3 .....	1.16	1.54	.70	.18	3.64
4 .....	2.02	1.58	.52	.26	4.39
5 .....	1.52	.98	.78	.07	3.48
6 .....	1.66	.63	.87	.10	3.32
7 .....	1.11	.67	.60	.01	2.24
8 .....	1.57	.45	.78	.25	2.99
9 .....	1.53	1.04	.92	.03	3.47
10 .....	1.46	1.08	1.04	—	3.61
11 .....	.91	1.57	.95	.07	3.68
12 .....	1.17	2.64	1.66	.12	5.84
13 .....	1.07	1.05	.93	.06	3.24
14 .....	1.45	.70	.74	.20	3.04
15 .....	1.02	.74	.84	.40	3.07
16 .....	.62	2.22	1.55	.37	4.76

Note: The above table was compiled from rainfall records kept by test supervisors. Each supervisor was supplied with a rain gauge and one of his duties was to keep a record of rainfall during the growing season.

## REVIEW OF THE 1961 SEASON

Surface moisture supplies in the spring of 1961 were reasonably adequate for germination in most parts of the province, but reserve moisture was limited. Cool weather and high winds in the spring caused some local soil drifting in the south and south-east of the province but it was not wide-spread. Slow grain growth in the spring enabled weeds to gain a foothold, and in some fields reseeding was required. The month of June was one of the hottest and driest on record for Saskatchewan, and this, together with grasshopper and cutworm infestation caused a severe decline in the condition of grain crops over the greater part of the province. Only in the north-west were crop conditions favorable. In the south-east a large part of the coarse grain crop was abandoned in the fields or cut for green feed. For the province as a whole the average yield of wheat was slightly more than eight bushels per acre, the lowest yield since 1937. While yields were low most of the grain produced was of excellent quality and high in bushel weight. Harvest weather was ideal and the grain was taken off in good condition.

## SUMMARY OF RESULTS

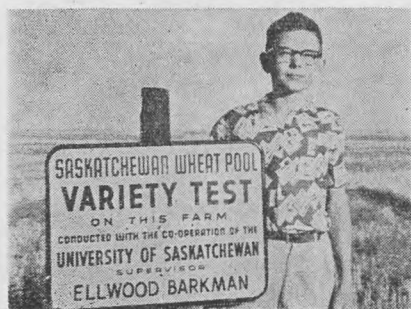
Several unusual characteristics of the 1961 season must be kept in mind when assessing the results of these tests. The unusually widespread and severe drought showed up to advantage those varieties with particular drought resistance and took a heavy toll of those which are not particularly resistant. There was little or no evidence of either stem or leaf rust in the province this year, and consequently the susceptible varieties yielded well even in those areas where rust is a frequent hazard.

In the wheat tests Thatcher and Canthatch outyielded the other three varieties in nearly every Wheat Pool district in the province. As might be expected from their similar parentage, these two varieties were very similar in yield and other characteristics. Both are notably drought resistant, and Canthatch has stem rust resistance as well. Selkirk yielded reasonably well over most of the province but was outyielded by Lake in a limited area of the north and north-west where this variety seems to be particularly adapted. Pembina did not produce outstanding yields under 1961 conditions. Because of their rust resistance Selkirk and Pembina are useful varieties where rust is a crop hazard.

In the oat tests Glen produced outstanding yields in 1961. Exeter also produced good yields while Garry and Rodney were in most cases somewhat lower in yield. In most districts Russell was outyielded by the other four varieties tested. Because of their rust resistance Garry and Russell are useful varieties where rust is a crop hazard. Rodney also is resistant to most races of rust. Exeter and Glen are susceptible to rust.

Palliser and Betzes, both two-rowed barley varieties, yielded well in this year's tests. There was little to choose between them on the basis of yield. Both are susceptible to rust. The feed variety Keystone yielded quite well in a number of Wheat Pool districts. It is the first available barley variety with resistance to loose smut. Hannchen was somewhat lower in yield than the varieties mentioned previously. Jubilee, a feed variety, was not outstanding in yield this year.

More detailed information can be found in the section "Performance of Varieties" for each of the crops.



Ellwood Barkman of Flowing Well placed his sign beside his wheat test.



Mark and Gregory Mulatz of Arbutnot conducted a joint test this year.



## WHEAT TESTS

A total of 124 wheat tests were grown in 1961. Each test contained the five varieties, Thatcher, Canthatch, Selkirk, Pembina and Lake.

### DESCRIPTION OF VARIETIES

**Thatcher** occupies about half the acreage seeded to wheat in the province. It was included in these tests as a standard of comparison. It was developed at the University of Minnesota from the cross (Marquis X Iumillo) X (Marquis X Kanred). Thatcher is high in milling and baking quality. It is resistant to drought, to shattering and to spring frost damage, but susceptible to bleaching. It is resistant to loose smut and moderately resistant to common rootrot, but susceptible to leaf rust, to stem rust and to covered smut.

**Canthatch** was developed at Winnipeg by the Canada Department of Agriculture, and licensed for commercial distribution in 1959. It is very similar to Thatcher in appearance and growth characteristics, but has added stem rust resistance. It is, however, susceptible to leaf rust.

**Selkirk** was developed by the Canada Department of Agriculture at Winnipeg from crosses involving the varieties McMurachy, Exchange and Redman. It is equal to Thatcher in maturity, straw length and straw strength. It is less resistant to shattering but more resistant to bleaching. Selkirk is resistant to stem and leaf rust and to loose and covered smut.

**Pembina** was developed at Winnipeg by the Canada Department of Agriculture and licensed for distribution in 1959. It is similar to Selkirk, but matures slightly earlier and has slightly better stem and leaf rust resistance. Pembina is somewhat higher in milling and baking quality than is Selkirk, but has less resistance to covered smut.

**Lake** was developed at the Experimental Farm at Scott, Saskatchewan from the cross Regent X Canus. It is later in maturity than Thatcher and has medium long, strong straw. Lake is less resistant to shattering than is Thatcher. It is resistant to covered smut but susceptible to loose smut and to stem and leaf rust.

### PERFORMANCE OF VARIETIES

TABLE No. 2—AVERAGE YIELDS IN BUSHELS PER ACRE  
SUMMARIZED BY DISTRICTS

Districts**	No. of Satisfactory Tests	Thatcher	Canthatch	Selkirk	Pembina	Lake	Necessary Difference in Bushels
District 1	4	5.8	6.1	6.6	5.5	5.6	.78
District 2	6	11.1	10.6	10.3	9.1	10.3	.52
District 3	4	10.5	9.6	9.8	8.9	8.9	N.S.
District 4	5	20.4	20.8	18.6	17.0	15.1	.84
District 5	6	15.4	15.4	13.9	12.7	13.6	.62
District 6	7	19.3	18.8	18.1	16.5	18.1	.66
District 7	5	14.9	14.4	13.9	12.5	13.9	.74
District 8	5	12.7	12.5	11.5	9.4	13.0	N.S.
District 9	8	13.6	13.5	13.0	11.4	12.3	.51
District 10	7	10.8	10.8	10.1	9.2	9.7	.62
District 11	7	14.2	14.1	13.6	11.9	14.0	.74
District 12	7	23.1	24.1	20.5	19.2	22.3	N.S.
District 13	6	16.8	16.4	15.4	13.5	16.0	N.S.
District 14	4	17.5	17.7	16.4	15.0	16.9	N.S.
District 15	6	25.7	25.4	22.3	21.1	22.9	1.33
District 16	8	21.4	22.1	21.6	18.2	19.2	N.S.

\*Necessary Difference—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary Difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular area.

N.S.—Yield differences not significant.

\*\*See map, page 5.

**Table No. 2.** Under the drought conditions which prevailed during 1961 the varieties Thatcher and Canthatch performed better than the other varieties tested. In all cases yield differences between these two varieties were

slight and in no district were these differences statistically significant. Selkirk ranked third in yield in the province as a whole. However in several districts in the north and north-west it was outyielded by Lake. Under the conditions which existed in 1961, Pembina was the lowest yielding of the five varieties tested. When comparing these varieties it should be kept in mind that in some respects 1961 conditions were unusual for this province. There was little or no evidence of rust, in any area of the province, and unusually dry conditions extended over a wide area. These conditions tended to show up to advantage those varieties with drought tolerance. Under conditions where stem and leaf rust may be expected to occur frequently, the resistant varieties Pembina and Selkirk are the only ones which should be grown. In this year's tests Selkirk consistently outyielded Pembina. Where stem rust alone is a hazard and drought conditions are likely to prevail, Canthatch would be a useful choice. Lake appears to have a limited adaptation in the west-central and north-west of the province, although it is comparatively late in maturity. No sawfly resistant varieties were tested in 1961 but in previous tests Chinook and Rescue have proved useful where sawfly damage is expected.

TABLE No. 3—AVERAGE NUMBER OF DAYS FROM SEEDING TO RIPENING—SUMMARIZED BY DISTRICTS

District	Thatcher	Canthatch	Selkirk	Pembina	Lake
District 1	82.0	81.7	81.3	81.0	83.0
District 2	88.8	88.3	88.0	87.0	89.5
District 3	86.8	86.5	87.3	86.8	88.8
District 4	85.5	87.0	86.5	86.0	88.0
District 5	87.8	87.8	86.6	86.6	89.8
District 6	85.0	84.8	84.3	84.3	87.8
District 7	85.5	85.5	85.0	85.3	88.5
District 8	86.7	87.0	87.0	87.0	88.7
District 9	85.1	84.4	84.4	83.7	86.6
District 10	79.0	79.5	80.5	78.8	79.3
District 11	84.2	84.8	84.0	84.8	87.8
District 12	87.0	87.0	86.8	86.8	90.0
District 13	81.6	80.2	80.2	79.8	83.4
District 14	90.3	90.7	90.3	89.0	93.7
District 15	86.8	88.3	89.3	87.3	92.0
District 16	91.7	91.3	90.4	90.4	93.7

Table No. 3. Time of maturity is an important characteristic in areas where early frost is likely to occur. Of the five varieties tested Pembina was on the average the earliest to mature. Selkirk was quite close to Pembina but slightly later. Thatcher and Canthatch were quite similar in time of maturity, while Lake was consistently several days later.



Many variety test supervisors took part in tours. Here Eugene Vermette, a registered seed grower at Elrose discusses flax with three supervisors from District 11.



TABLE No. 4—AVERAGE HEIGHT OF PLANTS IN INCHES—  
SUMMARIZED BY DISTRICTS

District	Thatcher	Canthatch	Selkirk	Pembina	Lake
District 1	14.0	13.5	13.3	12.8	14.0
District 2	17.5	17.5	17.3	16.0	18.0
District 3	18.2	17.0	16.4	16.2	17.4
District 4	20.8	21.3	21.3	20.8	21.5
District 5	22.5	21.8	21.0	20.2	23.2
District 6	23.4	22.8	23.2	21.4	25.2
District 7	18.2	17.8	17.6	17.4	19.4
District 8	18.5	18.0	18.5	16.0	21.5
District 9	17.4	16.4	16.8	15.9	18.0
District 10	17.6	16.8	17.0	16.0	17.0
District 11	17.3	17.4	17.6	17.7	19.9
District 12	22.7	22.4	22.9	22.0	24.0
District 13	20.0	19.7	18.8	17.7	22.3
District 14	24.8	24.0	23.8	23.0	26.0
District 15	25.8	25.2	25.0	24.3	27.8
District 16	24.7	23.4	23.4	23.0	24.6

Table No. 4. Short straw may be considered an advantage or a disadvantage depending on the growing conditions in any one year. Under dry conditions short straw may cause difficulty in combining. On the other hand, very tall straw under moist conditions may tend to lodge in the field. Of the five varieties tested, Pembina had the shortest straw, followed by Selkirk, Canthatch and Thatcher in that order. In nearly every district Lake was the tallest variety of those tested.

TABLE No. 5—AVERAGE STRAW STRENGTH OF PLANTS ON THE BASIS  
1 (Strong) to 9 (Weak)  
SUMMARIZED BY DISTRICTS

District	Thatcher	Canthatch	Selkirk	Pembina	Lake
District 1	2.8	2.8	3.4	3.3	3.2
District 2	4.4	4.0	4.0	4.1	4.2
District 3	3.2	3.2	3.7	3.4	3.0
District 4	1.3	1.5	1.3	1.0	1.3
District 5	2.7	2.6	2.8	3.0	2.0
District 6	2.7	2.6	2.6	3.1	2.4
District 7	2.3	2.3	2.0	2.4	3.1
District 8	2.7	2.7	2.7	2.7	3.3
District 9	2.2	2.1	1.7	2.4	1.5
District 10	1.8	1.9	2.8	2.2	2.2
District 11	1.3	2.1	2.7	2.3	2.4
District 12	1.9	1.6	1.9	1.7	2.3
District 13	1.9	2.3	2.0	2.2	1.9
District 14	1.8	1.9	1.6	2.8	2.3
District 15	2.9	2.6	2.9	2.8	4.4
District 16	1.5	1.7	1.4	1.9	1.5

Table No. 5. In 1961 most grain plants were short and there was very little adverse weather at harvest time which might cause lodging. All five of the varieties tested showed very satisfactory straw strength this year.

TABLE No. 6—AVERAGE WEIGHT PER MEASURED BUSHEL—  
SUMMARIZED BY DISTRICTS

District	Thatcher	Canthatch	Selkirk	Pembina	Lake
District 1	62.3	62.7	58.7	59.7	61.3
District 2	62.5	63.3	60.5	61.1	62.0
District 3	59.0	60.2	56.2	57.4	58.0
District 4	60.6	61.4	59.0	59.6	59.2
District 5	61.2	61.8	58.8	59.8	61.0
District 6	63.9	64.3	62.1	62.6	62.9
District 7	62.7	63.2	60.7	61.3	61.8
District 8	63.0	63.6	60.9	61.4	62.1
District 9	62.6	63.5	61.0	61.1	62.3
District 10	60.9	61.6	58.4	59.4	58.9
District 11	62.3	63.1	60.1	61.3	61.3
District 12	63.5	64.0	60.9	62.1	63.0
District 13	61.7	62.4	60.0	61.4	61.7
District 14	63.3	63.7	61.8	62.7	63.2
District 15	63.7	63.8	62.2	62.8	63.2
District 16	63.0	63.9	61.4	62.4	62.5

**Table No. 6.** Bushel weight is one of the factors which affect commercial grades of grain, and in this way affect the return which the farmer receives for his crop. In 1961 although crops were thin and yields low, in general bushel weights were unusually high and samples graded favorably.

The relative bushel weights of the five varieties tested were quite consistent throughout the province. They placed in the following order: **Canthatch Thatcher**, **Lake**, **Pembina**, and **Selkirk**. In a year in which average bushel weights were lower than in 1961 some of the varieties with characteristically lower weight might be degraded for this reason.

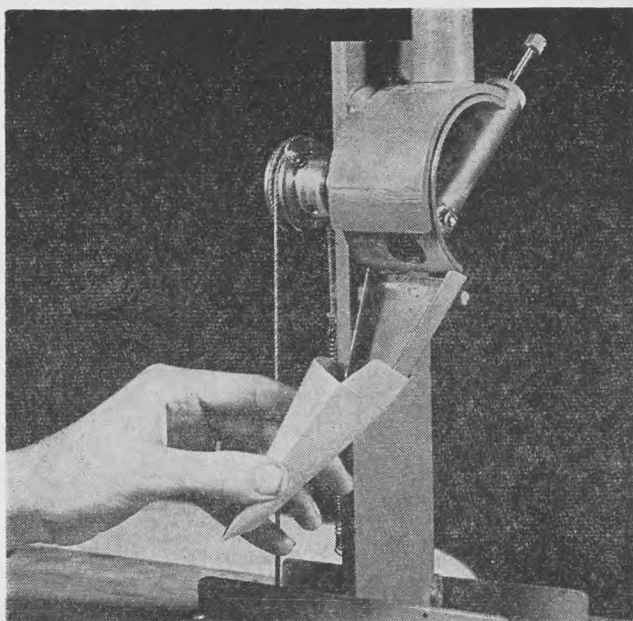
**TABLE No. 7—PERCENTAGE OF COMMERCIAL GRADES BY VARIETIES**

Variety	1 Nor %	2 Nor. %	3 Nor. %	4 Nor. %	4 Sp. %	No. 5 %	5 Sp. %	No. 6 %
Thatcher .....	57.0	34.6	4.7	.9	2.8	—	—	—
Canthatch .....	57.0	34.6	4.7	1.9	.9	—	.9	—
Selkirk .....	19.7	62.7	9.3	3.7	1.9	.9	.9	.9
Pembina .....	17.8	70.1	6.5	1.9	1.9	.9	—	.9
Lake .....	40.2	49.6	4.7	2.8	1.8	—	—	.9

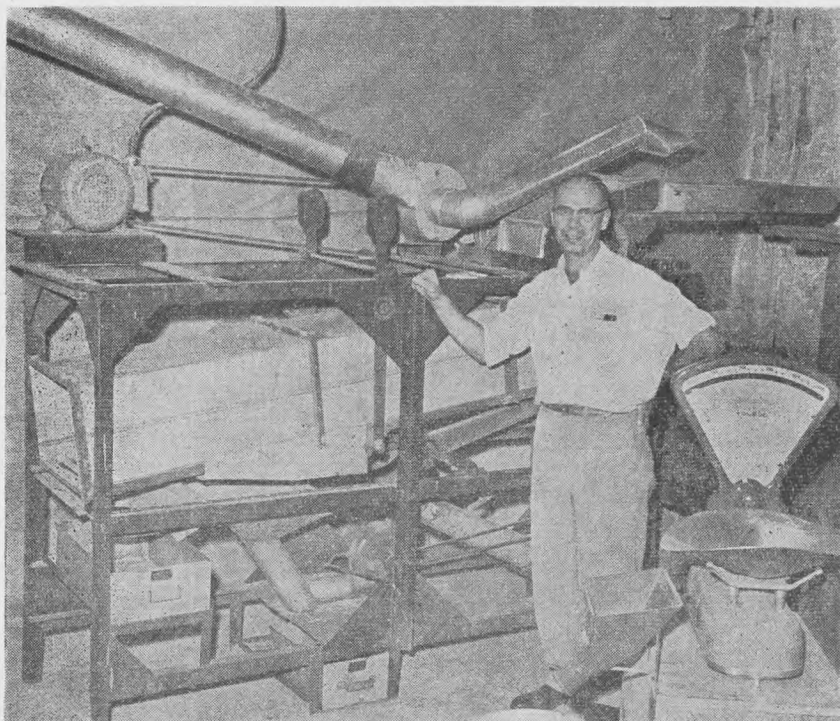
**Table No. 7.** Due to generally high bushel weight and good harvest weather, grain grades in 1961 were very favorable. In some instances the presence of thin and shrunken kernels resulted in degrading of samples. **Thatcher** and **Canthatch** were superior in grade with more than 90 per cent of the samples of both varieties falling in the top two grades. **Lake** graded slightly lower with just under 90 per cent of the samples in these two grades, while **Pembina** and **Selkirk** were somewhat lower in grade.



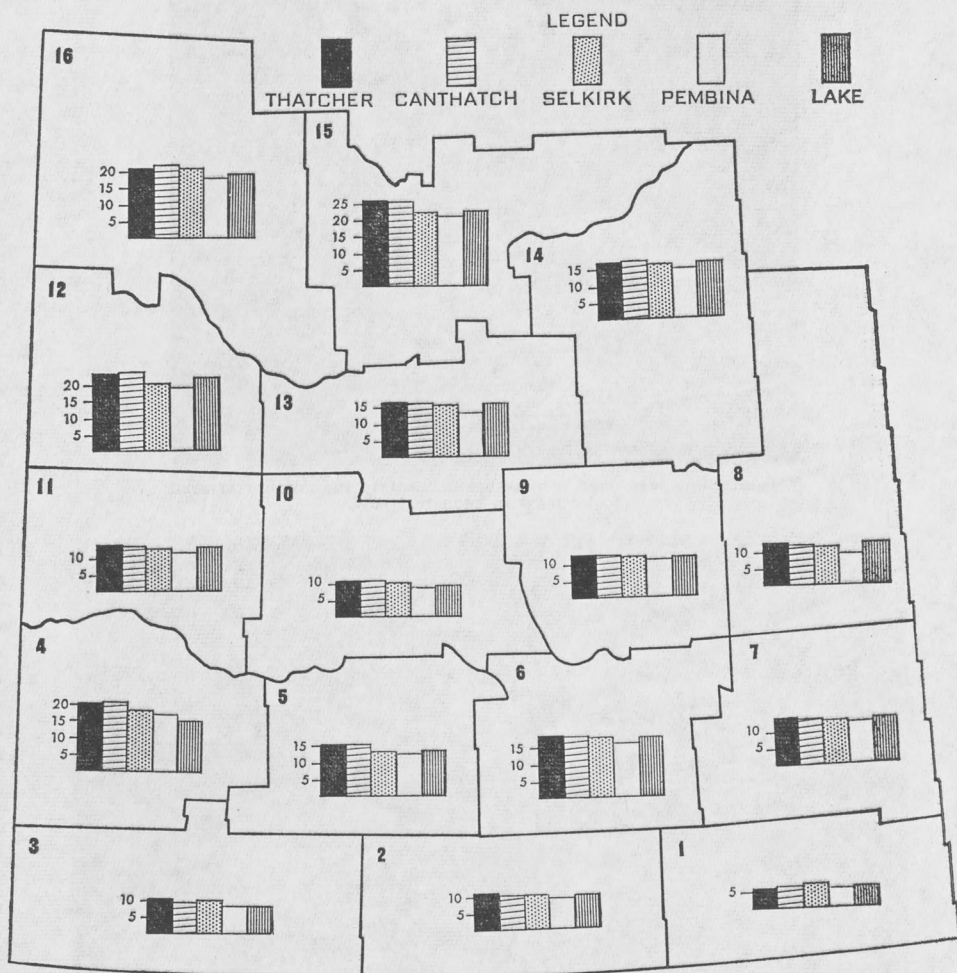
Ronald Stengler has reason to be proud of a uniform stand of oats in his test at Mankota.



This machine was used to measure accurately the amount of seed to be used in each test row.



A special rod-row threshing machine in Regina was used to thresh the test sheaves.



GRAPHS SHOWING WHEAT YIELDS IN 1961



TABLE No. 8

## INDIVIDUAL SUMMARIZED RESULTS OF ALL TESTS—WHEAT

The results of all successful wheat tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. Before consulting the following table the reader is advised to refer to the discussion on page 5, headed, "Facts To Be Remembered in Reading Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the discussion on a district basis which notes the performance of the same varieties in a large number of tests conducted in an area where growing conditions are more or less similar.

For an explanation of the abbreviations under "Grading Remarks", see Page 7.

## WHEAT POOL DISTRICT 1

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
CHARLES E. REDPATH, GAINSBOROUGH									
1	1	Thatcher	—	86	12	7.0	(A)	3 Nor.	(E)
		Canthatch	—	85	10	7.3	(A)	3 Nor.	(E)
		Selkirk	—	86	11	8.5	(A)	4 Nor.	(E)
		Pembina	—	85	10	8.3	(A)	3 Nor.	(E)
		Lake	—	85	11	7.8	(A)	3 Nor.	(E)
Test damaged by shattering—yields not reliable Rainfall—May to August—3.82 inches									
NORMAN I. DILLMAN, BIENFAIT									
1	4	Thatcher	1.1	80	8	2.0	(A)	3 Nor.	(E)
		Canthatch	1.0	80	8	2.0	(A)	3 Nor.	(E)
		Selkirk	2.1	80	8	2.0	56	4 Nor.	S.
		Pembina	1.2	80	8	2.0	57	3 Nor.	S.
		Lake	2.2	80	8	2.0	60	2 Nor.	S.
Necessary difference—.72 bushels Rainfall—May to August—1.57 inches									
AIME E. BOEY, BENSON									
1	5	Thatcher	10.3	80	18	1.0	64	1 Nor.	—
		Canthatch	10.6	80	18	1.0	65	1 Nor.	—
		Selkirk	10.2	78	16	2.0	62	2 Nor.	S.
		Pembina	8.6	78	15	2.0	62	2 Nor.	S.
		Lake	9.7	84	19	2.0	65	1 Nor.	—
Yield differences not significant Rainfall—May to August—3.74 inches									
ROBERT A. ADAMS, ESTEVAN									
1	6	Thatcher	3.9	—	18	1.0	60	2 Nor.	S.
		Canthatch	4.8	—	18	1.0	61	2 Nor.	S.
		Selkirk	4.0	—	18	1.0	55	4 Sp.	S.
		Pembina	3.0	—	18	1.0	57	3 Nor.	S.
		Lake	4.1	—	18	1.0	59	2 Nor.	S.
Necessary difference—.86 bushels Rainfall—May to August—1.80 inches									
RONALD G. ALEXANDER, GOODWATER									
1	7	Thatcher	7.8	—	—	—	63	2 Nor.	S.
		Canthatch	7.9	—	—	—	62	2 Nor.	S.
		Selkirk	10.1	—	—	—	59	2 Nor.	—
		Pembina	9.3	—	—	—	60	2 Nor.	S.
		Lake	6.5	—	—	—	60	2 Nor.	S.
Yield differences not significant Rainfall—May to August—3.17 inches									
Tests discarded on account of damage by pests, hail, drought or other causes:									
1	2	Kathleen E. Sorensen, Alida							
1	3	Nicholas F. Henger, Glen Ewen							
1	9	Julian A. Richaud, Forget							

## WHEAT POOL DISTRICT 2

DANIEL R. JOHNSON, BEAUBIER									
2	1	Thatcher	14.8	88	25	5.0	64	1 Nor.	—
		Canthatch	14.9	87	25	6.5	65	1 Nor.	—
		Selkirk	14.4	89	24	5.0	63	1 Nor.	—
		Pembina	11.9	87	24	5.5	62	2 Nor.	T.
		Lake	13.6	90	25	4.3	63	1 Nor.	—
Necessary difference—1.28 bushels Rainfall—May to August—2.70 inches									

# Wheat Pool District 2—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
GERALD B. KRAVANYA, MINTON									
2	2	Thatcher	8.7	—	17	2.0	64	1 Nor.	—
		Canthatch	8.1	—	18	2.0	65	1 Nor.	—
		Selkirk	8.6	—	17	2.0	62	2 Nor.	S.
		Pembina	8.0	—	17	2.0	63	1 Nor.	—
		Lake	9.7	—	20	2.0	64	1 Nor.	—
Yield differences not significant					Rainfall—May to August—3.95 inches				
BARRY W. SAWIN, BIG BEAVER									
2	3	Thatcher	1.5	—	—	—	59	2 Nor.	—
		Canthatch	1.2	—	—	—	(A)	3 Nor.	(E)
		Selkirk	2.0	—	—	—	57	3 Nor.	—
		Pembina	1.3	—	—	—	57	3 Nor.	—
		Lake	1.4	—	—	—	57	3 Nor.	—
Yield differences not significant					Rainfall record incomplete				
RAYMOND L. LOY, CANOPUS									
2	5	Thatcher	19.5	96	—	—	61	2 Nor.	S.
		Canthatch	19.2	96	—	—	62	2 Nor.	S.
		Selkirk	16.1	96	—	—	59	2 Nor.	S.
		Pembina	15.7	96	—	—	60	2 Nor.	S.
		Lake	16.5	99	—	—	61	2 Nor.	S.
Necessary difference—2.23 bushels					Rainfall—May to August—6.35 inches				
R. GRANT LANGMAN, MELAVAL									
2	6	Thatcher	12.1	—	—	—	63	2 Nor.	T.
		Canthatch	12.0	—	—	—	63	1 Nor.	—
		Selkirk	12.0	—	—	—	60	2 Nor.	T.
		Pembina	10.2	—	—	—	61	2 Nor.	T.
		Lake	13.5	—	—	—	63	1 Nor.	—
Necessary difference— .87 bushels					Rainfall—May to August—3.10 inches				
KENNETH J. BERNER, VERWOOD									
2	8	Thatcher	—	83	15	7.0	61	2 Nor.	S.
		Canthatch	—	82	15	4.0	62	2 Nor.	S.
		Selkirk	—	80	14	6.0	59	2 Nor.	T.
		Pembina	—	78	12	5.0	60	2 Nor.	T.
		Lake	—	80	13	6.0	60	2 Nor.	T.
Part of test damaged by shattering—yields not reliable					Rainfall—May to August—3.57 inches				
CLIFFORD A. ZABOLOTNEY, KAYVILLE									
2	9	Thatcher	9.8	88	14	3.5	62	2 Nor.	W.
		Canthatch	8.2	88	12	3.3	63	2 Nor.	W.
		Selkirk	8.7	87	14	3.0	60	2 Nor.	T.
		Pembina	6.8	87	11	4.0	61	2 Nor.	T.
		Lake	6.8	89	14	4.5	61	2 Nor.	T., St
Necessary difference—1.30 bushels					Rainfall—May to August—2.11 inches				
Tests discarded on account of damage by pests, hail, drought or other causes:									
2	4	Ronald L. Belsher, Rockglen							
2	7	Richard J. Tonita, Flintoft							
2	11	Brian J. Sweeney, Bengough							

## WHEAT POOL DISTRICT 3

DELMER D. FORZLEY, McCORD									
3	1	Thatcher	1.9	81	—	—	53	4 Sp.	S.
		Canthatch	1.9	81	—	—	53	4 Sp.	S.
		Selkirk	1.3	81	—	—	51	No. 6	S.
		Pembina	1.4	81	—	—	51	No. 6	S.
		Lake	.8	84	—	—	(A)	No. 6	(E)
Test damaged by hail—yields not used in district summary							Rainfall—May to August—3.88 inches		
RONALD B. JOHNSON, OXARAT									
3	5	Thatcher	19.5	83	22	1.8	60	2 Nor.	S.
		Canthatch	16.7	82	21	2.0	60	2 Nor.	S.
		Selkirk	16.5	83	20	2.0	57	3 Nor.	S.
		Pembina	16.9	83	20	2.0	59	2 Nor.	T.
		Lake	16.4	84	22	1.8	59	2 Nor.	T.
Yield differences not significant							Rainfall—May to August—4.95 inches		

# Wheat Pool District 3—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
STEWART D. ADAM, EASTEND									
3	6	Thatcher	10.0	—	17	2.3	60	2 Nor.	S.
		Canthatch	9.7	—	17	2.0	62	2 Nor.	S.
		Selkirk	11.1	—	16	4.3	57	3 Nor.	—
		Pembina	8.6	—	16	2.8	59	2 Nor.	—
		Lake	9.1	—	18	2.5	59	2 Nor.	—
Necessary difference—1.02 bushels			Rainfall—May to August—4.36 inches						
ORLAND H. WILLS, EASTEND									
3	7	Thatcher	—	—	17	7.3	55	4 Sp.	S.
		Canthatch	—	—	15	7.3	56	4 Nor.	S.
		Selkirk	—	—	14	7.5	53	No. 5	—
		Pembina	—	—	14	7.8	53	No. 5	—
		Lake	—	—	13	6.0	54	4 Sp.	—
Test damaged by birds—yields not reliable			Rainfall—May to August—5.17 inches						
ROBERT D. ZAREMBA, INSTOW									
3	8	Thatcher	8.1	96	20	2.0	60	2 Nor.	S.
		Canthatch	8.0	96	18	2.0	62	2 Nor.	S.
		Selkirk	7.7	96	18	2.0	58	2 Nor.	—
		Pembina	6.6	95	18	2.0	59	2 Nor.	—
		Lake	7.2	97	20	2.0	60	2 Nor.	S.
Yield differences not significant			Rainfall—May to August—3.53 inches						
DAVID A. CALVIN, HAZENMORE									
3	10	Thatcher	4.2	87	15	2.5	60	2 Nor.	T.
		Canthatch	3.9	87	14	2.8	61	2 Nor.	T.
		Selkirk	4.0	89	14	2.8	56	3 Nor.	T.
		Pembina	3.3	88	13	2.5	57	3 Nor.	T.
		Lake	3.0	90	14	2.5	58	3 Nor.	T.
Yield differences not significant			Rainfall—May to August—2.88 inches						
Tests discarded on account of damage by pests, hail, drought or other causes:									
3	2	George E. Anderson, Val Marie							
3	3	Maurice A. Wilson, Climax							

# WHEAT POOL DISTRICT 4

MARVIN C. ZOLLNER, GOLDEN PRAIRIE									
4	2	Thatcher	.9	88	12	1.0	(A)	4 Sp.	(E)
		Canthatch	.6	89	12	1.0	(A)	4 Sp.	S.
		Selkirk	2.5	90	12	1.0	53	4 Sp.	S.
		Pembina	1.3	89	12	1.0	53	4 Sp.	S.
		Lake	.7	91	11	1.0	(A)	4 Sp.	(E)
Test damaged by grasshoppers—yield not included in district summary Rainfall record incomplete									
ROBERT OLDHAVER, CABRI									
4	5	Thatcher	44.8	—	32	1.0	64	1 Nor.	—
		Canthatch	45.1	—	33	2.0	65	1 Nor.	—
		Selkirk	39.2	—	33	1.0	63	1 Nor.	—
		Pembina	37.9	—	33	1.0	64	1 Nor.	—
		Lake	33.5	—	34	1.0	63	1 Nor.	—
Necessary difference—3.66 bushels			Rainfall—May to August—5.46 inches						
KENNETH J. SAWBY, GOLDEN PRAIRIE									
4	6	Thatcher	17.5	—	—	—	61	2 Nor.	S.
		Canthatch	18.3	—	—	—	61	2 Nor.	S.
		Selkirk	16.0	—	—	—	58	2 Nor.	—
		Pembina	14.2	—	—	—	59	2 Nor.	—
		Lake	9.1	—	—	—	59	2 Nor.	—
Necessary difference—1.52 bushels			Rainfall—May to August—4.64 inches						
GARRY W. C. BRILZ, RICHMOND									
4	7	Thatcher	4.8	—	—	—	57	3 Nor.	—
		Canthatch	5.7	—	—	—	58	3 Nor.	S.
		Selkirk	4.0	—	—	—	57	3 Nor.	—
		Pembina	3.5	—	—	—	56	4 Nor.	—
		Lake	4.0	—	—	—	56	4 Nor.	—
Yield differences not significant			Rainfall record incomplete						

# Wheat Pool District 4—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
ROBERT H. STAPLE, SCEPTRE									
4	9	Thatcher	21.0	83	21	1.0	62	1 Nor.	— S.
		Canthatch	21.3	85	22	1.0	63	1 Nor.	
		Selkirk	22.0	83	22	1.0	60	2 Nor.	
		Pembina	18.2	83	20	1.0	61	2 Nor.	
		Lake	17.9	85	23	1.0	61	2 Nor.	
Necessary difference—1.53 bushels			Rainfall—May to August—5.01 inches						
KENNETH J. SHIELDS, HAZLET									
4	10	Thatcher	13.8	—	18	2.0	59	2 Nor.	S.
		Canthatch	13.7	—	18	2.0	60	2 Nor.	S.
		Selkirk	11.8	—	18	2.0	57	3 Nor.	S.
		Pembina	11.1	—	18	1.0	58	2 Nor.	S.
		Lake	11.0	—	18	2.0	57	3 Nor.	S.
Necessary difference— .84 bushels			Rainfall record incomplete						
Tests discarded on account of damage by pests, hail, drought or other causes:									
4	3	Garth L. Reimer, Leinan							

# WHEAT POOL DISTRICT 5

H. WAYNE SULLY, ARDILL									
5	1	Thatcher	11.8	100	24	4.5	63	1 Nor.	—
		Canthatch	9.9	99	24	4.0	63	1 Nor.	—
		Selkirk	9.0	99	21	5.3	60	2 Nor.	S.
		Pembina	7.7	99	22	4.5	61	2 Nor.	—
		Lake	7.7	102	23	4.0	63	1 Nor.	—
Necessary difference—2.63 bushels				Rainfall—May to August—4.04 inches					
MARK AND GREGORY MULATZ, ARBUTHNOT									
5	2	Thatcher	15.5	—	20	2.0	59	2 Nor.	—
		Canthatch	15.1	—	19	2.0	61	2 Nor.	S.
		Selkirk	13.1	—	18	2.0	57	3 Nor.	—
		Pembina	12.9	—	19	2.0	59	2 Nor.	—
		Lake	12.3	—	21	2.0	59	2 Nor.	—
Necessary difference—1.22 bushels				Rainfall—May to August—3.69 inches					
W. GARY BETTISON, PAMBRUN									
5	3	Thatcher	6.8	82	15	2.0	56	4 Nor.	—
		Canthatch	7.2	83	15	2.0	56	4 Nor.	—
		Selkirk	5.6	80	14	1.0	52	5 Sp.	—
		Pembina	5.9	81	15	1.0	53	4 Sp.	—
		Lake	5.3	83	14	1.0	56	4 Nor.	—
Necessary difference—1.02 bushels				Rainfall—May to August—3.78 inches					
ELLWOOD BARKMAN, FLOWING WELL									
5	5	Thatcher	18.1	81	24	2.0	63	1 Nor.	—
		Canthatch	19.1	81	23	2.0	64	1 Nor.	—
		Selkirk	17.1	80	22	2.0	61	2 Nor.	S.
		Pembina	16.7	79	21	3.0	62	2 Nor.	—
		Lake	16.0	85	25	1.0	63	1 Nor.	—
Necessary difference—1.15 bushels				Rainfall—May to August—3.55 inches					
GARRY C. SHELDON, OLD WIVES									
5	6	Thatcher	25.9	89	27	3.0	64	1 Nor.	—
		Canthatch	26.3	89	26	2.0	65	1 Nor.	—
		Selkirk	23.5	89	28	4.0	63	1 Nor.	—
		Pembina	21.8	89	25	2.8	64	1 Nor.	—
		Lake	26.5	92	29	2.8	63	2 Nor.	S.
Necessary difference—1.23 bushels				Rainfall—May to August—3.99 inches					
PATRICK B. MORRISON, ARCHYDAL									
5	7	Thatcher	14.3	87	25	2.8	62	2 Nor.	T.
		Canthatch	14.6	87	24	3.5	62	2 Nor.	T.
		Selkirk	14.8	85	23	2.3	60	2 Nor.	S.
		Pembina	11.4	85	19	4.8	60	2 Nor.	S.
		Lake	13.3	87	27	1.0	62	1 Nor.	—
Necessary difference—2.03 bushels				Rainfall—May to August—3.31 inches					
Tests discarded on account of damage by pests, hail, drought or other causes:									
5	4	Keith E. Stohlhandske, Swift Current							
5	10	Clifford A. Mathies, Herbert							



# WHEAT POOL DISTRICT 6

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
LYNDA M. KUSHNIR, RICETON									
6	2	Thatcher	29.5	—	28	1.8	63	1 Nor.	—
		Canthatch	28.4	—	28	1.0	64	1 Nor.	—
		Selkirk	27.0	—	29	1.0	62	1 Nor.	—
		Pembina	25.2	—	27	1.3	62	2 Nor.	S.
		Lake	25.2	—	30	1.0	61	2 Nor.	S.
Necessary difference—2.58 bushels			Rainfall—May to August—3.97 inches						
DONALD C. BROOKS, DUMMER									
6	3	Thatcher	11.4	—	—	—	64	1 Nor.	—
		Canthatch	10.2	—	—	—	64	1 Nor.	—
		Selkirk	10.3	—	—	—	62	2 Nor.	S.
		Pembina	9.8	—	—	—	62	2 Nor.	S.
		Lake	10.3	—	—	—	63	1 Nor.	—
Yield differences not significant			Rainfall—May to August—3.80 inches						
HARVEY E. THIELE, SPRING VALLEY									
6	4	Thatcher	14.7	—	22	3.3	64	1 Nor.	—
		Canthatch	14.4	—	21	3.0	64	1 Nor.	—
		Selkirk	12.0	—	20	3.3	62	2 Nor.	S.
		Pembina	11.0	—	18	5.0	63	2 Nor.	S.
		Lake	15.3	—	22	2.0	63	1 Nor.	—
Necessary difference—1.69 bushels			Rainfall—May to August—4.19 inches						
JOHN S. HALES, MOOSE JAW									
6	5	Thatcher	14.3	78	18	7.0	64	1 Nor.	—
		Canthatch	14.2	78	18	7.0	64	1 Nor.	—
		Selkirk	12.2	78	18	7.0	62	2 Nor.	S.
		Pembina	12.2	78	18	7.0	63	2 Nor.	S.
		Lake	12.3	80	22	6.0	63	2 Nor.	S.
Necessary difference—1.24 bushels			Rainfall—May to August—3.18 inches						
LORNE D. KELLY, VICTORIA PLAINS									
6	7	Thatcher	31.2	88	27	2.3	64	1 Nor.	—
		Canthatch	29.4	87	26	2.3	65	1 Nor.	—
		Selkirk	30.9	88	27	2.5	62	2 Nor.	T.
		Pembina	26.7	88	24	3.5	63	2 Nor.	T.
		Lake	29.0	90	29	2.3	63	1 Nor.	—
Necessary difference—2.01 bushels			Rainfall—May to August—4.31 inches						
MARGARET T. SCHICK, LORLIE									
6	9	Thatcher	19.1	86	22	1.0	65	1 Nor.	—
		Canthatch	19.3	86	21	1.0	65	1 Nor.	—
		Selkirk	19.2	86	22	1.0	63	1 Nor.	—
		Pembina	17.3	86	20	1.0	64	1 Nor.	—
		Lake	20.0	88	23	1.8	64	1 Nor.	—
Necessary difference—1.22 bushels			Rainfall—May to August—2.18 inches						
WILLIAM A. ODDIE, TREGARVA									
6	10	Thatcher	15.1	88	24	1.0	63	1 Nor.	—
		Canthatch	15.4	88	22	1.0	64	1 Nor.	—
		Selkirk	15.4	85	25	1.0	62	2 Nor.	S.
		Pembina	13.2	85	—	1.0	61	2 Nor.	S.
		Lake	14.3	93	27	1.0	63	1 Nor.	—
Yield differences not significant			Rainfall—May to August—5.54 inches						
Tests discarded on account of damage by pests, hail, drought or other causes:									
6	8	Larry P. Calcraft, Indian Head							

# WHEAT POOL DISTRICT 7

ROY T. RICHARDS, WAWOTA									
7	3	Thatcher	13.1	—	—	—	64	1 Nor.	—
		Canthatch	13.0	—	—	—	64	1 Nor.	—
		Selkirk	12.4	—	—	—	61	2 Nor.	S.
		Pembina	11.4	—	—	—	63	2 Nor.	S.
		Lake	12.3	—	—	—	62	2 Nor.	S.
Yield differences not significant			Rainfall—May to August—3.22 inches						

# Wheat Pool District 7—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
DENNIS W. MILLER, WINDTHORST									
7	4	Thatcher	22.3	83	21	—	63	1 Nor.	—
		Canthatch	21.8	83	21	—	63	1 Nor.	—
		Selkirk	18.1	83	19	—	60	2 Nor.	—
		Pembina	18.5	83	21	—	61	2 Nor.	—
		Lake	19.1	87	23	—	62	2 Nor.	—
Necessary difference—2.12 bushels			Rainfall—May to August—2.01 inches						
TED J. J. MALACH, CANDIAC									
7	6	Thatcher	13.9	91	18	3.0	63	1 Nor.	—
		Canthatch	14.0	91	18	3.0	64	1 Nor.	—
		Selkirk	12.3	89	17	2.0	62	2 Nor.	T.
		Pembina	10.7	90	16	3.0	62	2 Nor.	T.
		Lake	11.3	91	18	3.8	62	2 Nor.	T.
Necessary difference—1.05 bushels			Rainfall—May to August—3.26 inches						
E. DAVID OLIVE, WOLSELEY									
7	7	Thatcher	12.8	88	17	2.5	61	2 Nor.	S.
		Canthatch	11.5	88	16	2.0	62	2 Nor.	T.
		Selkirk	14.8	88	17	2.0	60	2 Nor.	S.
		Pembina	12.0	88	16	2.5	60	2 Nor.	S.
		Lake	14.3	88	18	2.5	61	2 Nor.	S.
Necessary difference—2.36 bushels			Rainfall—May to August—1.45 inches						
ALAN W. BOWMAN, WHITEWOOD									
7	8	Thatcher	—	—	17	2.0	61	2 Nor.	S.
		Canthatch	—	—	16	2.3	62	2 Nor.	S.
		Selkirk	—	—	17	2.0	59	2 Nor.	T.
		Pembina	—	—	17	2.0	60	2 Nor.	S.
		Lake	—	—	19	1.8	60	2 Nor.	S.
Test damaged by birds—yields not reliable			Rainfall—May to August—2.61 inches						
EVERETT M. SMART, HAZELCLIFFE									
7	9	Thatcher	12.2	80	18	1.8	64	1 Nor.	—
		Canthatch	11.9	80	18	2.0	64	1 Nor.	—
		Selkirk	11.7	80	18	1.8	62	2 Nor.	S.
		Pembina	9.9	80	17	2.0	62	2 Nor.	S.
		Lake	12.6	88	19	4.3	64	1 Nor.	—
Necessary difference—1.51 bushels			Rainfall—May to August—2.01 inches						
Tests discarded on account of damage by pests, hail, drought or other causes:									
7	2	James A. Frape, Moosomin							
7	5	Gary E. Morris, Fillmore							

# WHEAT POOL DISTRICT 8

WAYNE A. RATHGEBER, SALT COATS									
8	1	Thatcher	19.6	77	22	2.0	62	2 Nor.	S.
		Canthatch	17.7	77	21	2.0	63	2 Nor.	S.
		Selkirk	16.7	78	20	2.0	60	2 Nor.	S.
		Pembina	13.6	77	18	2.0	61	2 Nor.	S.
		Lake	20.6	78	26	1.8	63	2 Nor.	S.
Yield differences not significant				Rainfall—May to August—2.03 inches					
JERRY W. WEGNER, RHEIN									
8	2	Thatcher	14.4	—	—	—	63	1 Nor.	—
		Canthatch	16.4	—	—	—	63	1 Nor.	—
		Selkirk	15.5	—	—	—	61	2 Nor.	S.
		Pembina	13.2	—	—	—	62	2 Nor.	S.
		Lake	16.3	—	—	—	63	1 Nor.	—
Necessary difference—2.13 bushels				Rainfall—May to August—2.87 inches					
RONALD P. HUDY, MELVILLE									
8	3	Thatcher	9.2	85	—	—	63	1 Nor.	—
		Canthatch	9.4	85	—	—	63	1 Nor.	—
		Selkirk	9.5	85	—	—	59	2 Nor.	—
		Pembina	8.9	85	—	—	61	2 Nor.	S.
		Lake	8.2	89	—	—	60	2 Nor.	S.
Yield differences not significant				Rainfall—May to August—2.10 inches					

# Wheat Pool District 8—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
DONALD A. CHADNEY, SPRINGSIDE									
8	4	Thatcher	9.7	98	15.0	1.0	64	1 Nor.	—
		Canthatch	10.2	99	15.0	1.0	64	1 Nor.	—
		Selkirk	7.1	98	18.0	1.0	62	1 Nor.	—
		Pembina	5.8	99	13.0	1.0	62	2 Nor.	S.
		Lake	6.9	99	21.0	1.0	63	1 Nor.	—
Yield differences not significant					Rainfall—May to August—3.14 inches				
ROBERT G. STEVENS, DONWELL									
8	5	Thatcher	12.2	—	24	—	64	1 Nor.	—
		Canthatch	14.7	—	23	—	65	1 Nor.	—
		Selkirk	10.2	—	22	—	63	1 Nor.	—
		Pembina	10.2	—	19	—	63	1 Nor.	—
		Lake	6.6	—	26	—	63	1 Nor.	—
Soil variation—yields not included in district summary					Rainfall record incomplete				
ALLEN FREDERICKSON, THEODORE									
8	7	Thatcher	—	—	—	—	64	1 Nor.	—
		Canthatch	—	—	—	—	65	1 Nor.	—
		Selkirk	—	—	—	—	62	2 Nor.	—
		Pembina	—	—	—	—	63	2 Nor.	S.
		Lake	—	—	—	—	60	2 Nor.	S.
Test damaged—yields not reliable					Rainfall—May to August—3.31 inches				
FRANK M. HRABCHAK, PELLY									
8	10	Thatcher	10.8	—	13	5.0	61	3 Nor.	F.
		Canthatch	9.0	—	13	5.0	62	3 Nor.	F.
		Selkirk	8.7	—	14	5.0	59	3 Nor.	F.
		Pembina	5.5	—	14	5.0	58	3 Nor.	F.
		Lake	13.0	—	13	7.0	63	2 Nor.	S.
Necessary difference—3.09 bushels					Rainfall—May to August—2.84 inches				
Tests discarded on account of damage by pests, hail, drought or other causes:									
8	11	Donald Rurak, Erwood							

# WHEAT POOL DISTRICT 9

LAWRENCE P. JANKOSKI, ITUNA									
9	1	Thatcher	12.7	86	20	2.0	62	2 Nor.	S.
		Canthatch	13.1	85	16	2.0	64	1 Nor.	—
		Selkirk	13.3	82	21	2.0	62	2 Nor.	S.
		Pembina	11.6	82	21	2.0	62	2 Nor.	S.
		Lake	12.5	87	19	2.0	62	2 Nor.	S.
Yield differences not significant				Rainfall—May to August—2.45 inches					
RONALD A. BOSCHE, MARKINCH									
9	2	Thatcher	12.3	—	17	1.8	63	2 Nor.	S.
		Canthatch	12.7	—	17	2.0	64	1 Nor.	—
		Selkirk	9.7	—	16	1.5	61	2 Nor.	S.
		Pembina	10.4	—	17	3.3	61	2 Nor.	S.
		Lake	11.4	—	19	1.5	63	2 Nor.	S.
Yield differences not significant				Rainfall—May to August—5.66 inches					
MURRAY J. MALCOLM, BULYEA									
9	4	Thatcher	17.2	81	16	2.0	63	1 Nor.	—
		Canthatch	16.6	81	14	3.0	63	1 Nor.	—
		Selkirk	16.4	81	14	2.0	61	2 Nor.	S.
		Pembina	13.7	81	12	3.0	61	2 Nor.	S.
		Lake	14.1	83	17	1.0	63	1 Nor.	—
Necessary difference—1.51 bushels				Rainfall—May to August—4.75 inches					
RONALD K. MCKAY, GOVAN									
9	5	Thatcher	23.1	88	25	2.3	63	2 Nor.	G.
		Canthatch	21.9	88	24	2.0	63	2 Nor.	S., G.
		Selkirk	23.7	88	25	2.0	62	2 Nor.	G.
		Pembina	20.3	88	24	3.3	61	2 Nor.	S.
		Lake	21.6	90	26	1.8	62	2 Nor.	S., G.
Necessary difference—1.81 bushels				Rainfall—May to August—2.94 inches					

# Wheat Pool District 9—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
ALLAN D. BARTEL, LOCKWOOD									
9	6	Thatcher	6.0	91	15	1.5	62	2 Nor.	S.
		Canthatch	6.4	91	15	1.3	63	1 Nor.	—
		Selkirk	5.1	90	14	1.0	61	2 Nor.	S.
		Pembina	4.0	90	11	2.3	61	2 Nor.	S.
		Lake	7.1	92	18	1.3	62	2 Nor.	S.
Necessary difference—1.10 bushels			Rainfall—May to August—4.31 inches						
DENNIS ECKEL, QUINTON									
9	7	Thatcher	11.3	81	15	2.5	63	1 Nor.	—
		Canthatch	11.4	77	15	1.8	64	1 Nor.	—
		Selkirk	10.5	81	15	1.0	61	2 Nor.	S.
		Pembina	9.1	76	14	1.8	62	2 Nor.	S.
		Lake	9.6	80	16	1.5	63	1 Nor.	—
Necessary difference—1.23 bushels			Rainfall—May to August—3.59 inches						
LEONARD D. WOOD, KANDAHAR									
9	8	Thatcher	12.1	86	14	2.3	64	1 Nor.	—
		Canthatch	11.4	86	14	1.5	65	1 Nor.	—
		Selkirk	12.4	86	14	2.3	62	1 Nor.	—
		Pembina	10.6	86	14	1.8	62	2 Nor.	S.
		Lake	11.2	86	14	1.5	63	1 Nor.	—
Yield differences not significant			Rainfall—May to August—3.26 inches						
BERNARD J. SCHELLENBERG, WISHART									
9	9	Thatcher	14.1	83	17	2.8	61	2 Nor.	S.
		Canthatch	14.6	83	16	2.8	62	2 Nor.	—
		Selkirk	12.8	83	15	1.5	58	2 Nor.	—
		Pembina	11.8	83	14	2.0	59	2 Nor.	—
		Lake	10.6	88	15	1.3	60	2 Nor.	S.
Necessary difference—1.10 bushels			Rainfall—May to August—3.41 inches						

# WHEAT POOL DISTRICT 10

LEONARD R. P. SELINGER, HOLDFAST									
10	1	Thatcher	12.6	75	16	1.0	63	2 Nor.	S.
		Canthatch	12.6	75	16	1.0	64	1 Nor.	—
		Selkirk	12.0	75	16	1.0	61	2 Nor.	S.
		Pembina	9.5	75	14	1.0	61	2 Nor.	S.
		Lake	10.9	75	16	1.0	60	2 Nor.	S.
Necessary difference—1.45 bushels					Rainfall—May to August—3.27 inches				
RONALD LANGER, RIVERHURST									
10	2	Thatcher	4.2	77	13	2.0	61	2 Nor.	S.
		Canthatch	5.3	80	12	2.0	62	2 Nor.	S.
		Selkirk	5.2	81	13	2.8	59	2 Nor.	S.
		Pembina	3.9	82	12	2.0	60	2 Nor.	S.
		Lake	5.0	76	12	2.0	59	2 Nor.	S.
Necessary difference—.70 bushels					Rainfall record incomplete				
ERNEST S. LATSAY, BOUNTY									
10	5	Thatcher	4.7	—	—	—	59	2 Nor.	—
		Canthatch	5.5	—	—	—	60	2 Nor.	S., G.
		Selkirk	5.2	—	—	—	56	4 Nor.	S.
		Pembina	4.5	—	—	—	56	4 Nor.	S.
		Lake	2.7	—	—	—	56	4 Nor.	S.
Yield differences not significant					Rainfall record incomplete				
KEN L. WEBSTER, ELBOW									
10	6	Thatcher	12.6	84	20	1.0	59	3 Nor.	S., T.
		Canthatch	12.6	83	19	1.3	60	2 Nor.	S., T.
		Selkirk	12.0	85	20	5.0	57	3 Nor.	S., T.
		Pembina	10.8	80	18	2.0	59	3 Nor.	S., T.
		Lake	13.0	82	20	1.0	58	3 Nor.	S., T.
Yield differences not significant					Rainfall—May to August—5.39 inches				
IAN J. FINDLEY, GIRVIN									
10	7	Thatcher	—	—	18	1.0	61	2 Nor.	S.
		Canthatch	—	—	18	1.0	61	2 Nor.	S.
		Selkirk	—	—	12	1.0	57	3 Nor.	S.
		Pembina	—	—	14	—	61	2 Nor.	S.
		Lake	—	—	18	—	60	2 Nor.	S.
Test damaged by mice—yields not reliable					Rainfall—May to August—3.51 inches				



# Wheat Pool District 10—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
FRED A. WOLFF, LIBERTY									
10	8	Thatcher	12.3	—	20	2.5	60	2 Nor.	S.
		Canthatch	11.2	—	19	2.5	60	2 Nor.	S.
		Selkirk	9.0	—	19	2.5	57	3 Nor.	—
		Pembina	10.7	—	20	2.8	59	2 Nor.	—
		Lake	9.6	—	20	3.0	58	2 Nor.	—
Necessary difference—1.77 bushels			Rainfall—May to August—2.13 inches						
PAUL L. DIDUR, KENASTON									
10	9	Thatcher	16.5	80	19	2.3	62	2 Nor.	S.
		Canthatch	16.7	80	18	2.8	63	1 Nor.	—
		Selkirk	16.4	81	17	2.5	60	2 Nor.	S.
		Pembina	14.2	78	16	3.3	61	2 Nor.	S.
		Lake	15.2	84	17	3.8	61	2 Nor.	S.
Yield differences not significant			Rainfall record incomplete						
ERNEST R. ADAIR, HARRIS									
10	10	Thatcher	12.5	—	—	—	62	2 Nor.	S.
		Canthatch	11.9	—	—	—	62	2 Nor.	S.
		Selkirk	11.2	—	—	—	59	2 Nor.	S.
		Pembina	10.6	—	—	—	60	2 Nor.	S.
		Lake	11.6	—	—	—	60	2 Nor.	S.
Necessary difference—.97 bushels			Rainfall—May to August—1.39 inches						

# WHEAT POOL DISTRICT 11

RONALD W. MACPHERSON, LACADENA										
11	1	Thatcher	16.8	81	18	1.0	62	2 Nor.	S.	
		Canthatch	16.6	81	18	5.3	63	2 Nor.	S.	
		Selkirk	15.8	81	20	4.5	60	2 Nor.	S.	
		Pembina	13.1	81	19	3.0	61	2 Nor.	S.	
		Lake	17.0	81	20	5.0	62	2 Nor.	S.	
Necessary difference—2.44 bushels				Rainfall—May to August—3.27 inches						
KATHLEEN A. McBRIDE, MARENGO										
11	5	Thatcher	20.0	92	32	1.5	62	2 Nor.	S.	
		Canthatch	21.7	93	29	2.5	63	2 Nor.	S.	
		Selkirk	19.0	87	31	2.3	60	2 Nor.	S.	
		Pembina	17.7	90	32	2.3	62	2 Nor.	S.	
		Lake	16.4	100	33	1.3	61	2 Nor.	S.	
Necessary difference—3.44 bushels				Rainfall—May to August—2.53 inches						
DENNIS J. MOIR, BEADLE										
11	6	Thatcher	15.7	80	17	1.0	61	2 Nor.	S., G.	
		Canthatch	14.7	80	18	1.0	62	2 Nor.	S.	
		Selkirk	14.2	81	18	2.8	59	2 Nor.	S.	
		Pembina	13.7	80	19	4.0	60	2 Nor.	S.	
		Lake	14.1	83	19	3.5	59	2 Nor.	S.	
Yield differences not significant				Rainfall—May to August—3.84 inches						
ROBERT C. PATON, GLAMIS										
11	7	Thatcher	15.1	—	18	1.8	63	2 Nor.	G.	
		Canthatch	14.1	—	17	1.3	64	1 Nor.	—	
		Selkirk	13.4	—	17	4.0	60	2 Nor.	S.	
		Pembina	11.5	—	17	2.0	61	2 Nor.	S.	
		Lake	15.9	—	19	1.0	62	2 Nor.	G.	
Necessary difference—1.24 bushels				Rainfall—May to August—2.86 inches						
GREGORY R. MARTIN, HERSCHEL										
11	8	Thatcher	14.7	81	14	2.0	64	1 Nor.	—	
		Canthatch	14.1	83	14	2.0	65	1 Nor.	—	
		Selkirk	13.7	81	13	3.0	63	1 Nor.	—	
		Pembina	13.0	80	12	2.0	63	2 Nor.	S., T.	
		Lake	17.3	83	16	4.0	64	1 Nor.	—	
Necessary difference—1.27 bushels				Rainfall—May to August—2.85 inches						
JANET PEACOCK, BEAUFIELD										
11	9	Thatcher	6.0	83	12	1.0	61	2 Nor.	S.	
		Canthatch	6.2	83	12	1.3	62	2 Nor.	S.	
		Selkirk	6.4	83	12	1.5	58	2 Nor.	S.	
		Pembina	4.7	83	12	1.5	60	2 Nor.	S.	
		Lake	5.0	85	18	1.0	60	2 Nor.	S.	
Necessary difference—1.06 bushels				Rainfall—May to August—3.71 inches						

# Wheat Pool District 11—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
CLARENCE R. WARRINGTON, LOVERNA									
11	10	Thatcher	11.2	88	10	1.0	63	1 Nor.	— S.
		Canthatch	11.0	89	14	1.0	63	1 Nor.	
		Selkirk	12.8	91	12	1.0	61	2 Nor.	
		Pembina	9.4	95	13	1.0	62	2 Nor.	
		Lake	12.2	95	14	1.0	61	2 Nor.	
Yield differences not significant					Rainfall—May to August—3.92 inches				
Tests discarded on account of damage by pests, hail, drought or other causes:									
11	2	Marilyn E. Billett, Plato							

# WHEAT POOL DISTRICT 12

BRIAN J. NOSEK, BIGGAR									
12	1	Thatcher	10.8	—	—	—	63	1 Nor.	—
		Canthatch	12.4	—	—	—	64	1 Nor.	—
		Selkirk	9.7	—	—	—	62	2 Nor.	S.
		Pembina	9.2	—	—	—	63	2 Nor.	T.
		Lake	12.5	—	—	—	64	1 Nor.	—
Yield differences not significant				Rainfall record incomplete					
EDWIN C. BECKER, SPINNEY HILL									
12	2	Thatcher	—	85	22	1.8	62	2 Nor.	S.
		Canthatch	—	84	21	1.5	62	2 Nor.	S.
		Selkirk	—	84	22	2.0	58	2 Nor.	S.
		Pembina	—	84	21	1.8	60	2 Nor.	S.
		Lake	—	86	21	1.8	61	2 Nor.	S.
Test damaged by birds—yields not reliable				Rainfall—May to August—5.24 inches					
RAY E. TERNAN, LUSELAND									
12	4	Thatcher	13.7	78	17	1.0	62	2 Nor.	S.
		Canthatch	12.8	78	17	1.0	63	2 Nor.	S.
		Selkirk	11.9	79	17	1.0	58	2 Nor.	S.
		Pembina	10.6	78	17	1.0	60	2 Nor.	S.
		Lake	10.6	83	18	1.0	62	2 Nor.	S.
Necessary difference—.94 bushels				Rainfall—May to August—5.89 inches					
EDWIN SIEBEN, SALVADOR									
12	5	Thatcher	23.8	90	24	1.0	64	1 Nor.	—
		Canthatch	24.4	90	23	1.0	65	1 Nor.	—
		Selkirk	21.4	90	24	1.0	62	2 Nor.	S.
		Pembina	21.5	90	23	1.0	63	1 Nor.	—
		Lake	24.7	92	27	1.0	63	1 Nor.	—
Yield differences not significant				Rainfall—May to August—5.67 inches					
PAUL DIMITROFF, CACTUS LAKE									
12	6	Thatcher	27.5	86	25	3.0	64	1 Nor.	—
		Canthatch	29.6	86	26	1.0	64	1 Nor.	—
		Selkirk	23.8	86	25	4.0	62	2 Nor.	S.
		Pembina	22.5	86	23	2.0	63	2 Nor.	S.
		Lake	27.4	87	28	3.0	63	2 Nor.	S.
Necessary difference—4.77 bushels				Rainfall—May to August—6.20 inches					
BARRY J. ROBINSON, LONE ROCK									
12	8	Thatcher	35.9	97	24	2.0	65	1 Nor.	—
		Canthatch	41.2	97	24	2.0	65	1 Nor.	—
		Selkirk	33.5	97	24	2.0	63	1 Nor.	—
		Pembina	30.7	97	24	2.0	64	1 Nor.	—
		Lake	35.9	101	26	3.0	65	1 Nor.	—
Necessary difference—3.15 bushels				Rainfall—May to August—8.22 inches					
HERBERT S. BRINKHURST, GALLIVAN									
12	9	Thatcher	28.9	—	25	3.0	65	1 Nor.	—
		Canthatch	28.3	—	25	3.0	65	1 Nor.	—
		Selkirk	26.0	—	26	2.0	63	1 Nor.	—
		Pembina	24.5	—	25	2.3	63	1 Nor.	—
		Lake	28.3	—	29	4.8	64	1 Nor.	—
Necessary difference—2.42 bushels				Rainfall—May to August—6.12 inches					
DIANA R. DEGENSTIEN, BATTLEFORD									
12	10	Thatcher	21.0	86	22	1.5	63	1 Nor.	—
		Canthatch	19.8	87	21	1.5	64	1 Nor.	—
		Selkirk	17.2	85	22	1.3	59	2 Nor.	—
		Pembina	15.4	86	21	2.0	61	2 Nor.	S., T.
		Lake	17.0	91	19	1.5	62	2 Nor.	S.
Necessary difference—2.12 bushels				Rainfall—May to August—5.05 inches					

# WHEAT POOL DISTRICT 13

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
JAMES HIEBERT, BAY TRAIL									
13	1	Thatcher	13.1	78	22	1.5	63	2 Nor.	S.
		Canthatch	13.7	72	22	1.0	64	1 Nor.	—
		Selkirk	13.5	71	21	1.3	61	2 Nor.	S.
		Pembina	9.9	69	19	1.5	62	2 Nor.	—
		Lake	12.8	78	24	1.3	63	1 Nor.	—
Yield differences not significant			Rainfall—May to August—3.01 inches						
JAMES F. BOECHLER, ALLAN									
13	3	Thatcher	8.9	—	19	2.3	61	2 Nor.	S.
		Canthatch	8.3	—	18	3.0	62	2 Nor.	S.
		Selkirk	8.7	—	18	3.3	60	2 Nor.	S.
		Pembina	7.1	—	16	3.3	61	2 Nor.	S.
		Lake	7.9	—	21	3.3	61	2 Nor.	S.
Yield differences not significant			Rainfall—May to August—2.42 inches						
LINDA K. PAULSON, SASKATOON									
13	4	Thatcher	14.0	79	20	4.3	61	2 Nor.	S.
		Canthatch	13.9	77	19	4.8	62	2 Nor.	S.
		Selkirk	12.1	79	19	3.0	59	2 Nor.	—
		Pembina	9.7	80	18	3.8	61	2 Nor.	S.
		Lake	13.0	79	19	4.0	61	2 Nor.	S.
Yield differences not significant			Rainfall—May to August—4.05 inches						
GEORGE A. WIENS JR., DALMENY									
13	5	Thatcher	3.5	79	16	1.3	59	2 Nor.	S.
		Canthatch	4.0	80	15	2.0	60	2 Nor.	S.
		Selkirk	3.4	79	14	1.5	56	4 Nor.	S.
		Pembina	3.6	80	15	1.3	58	2 Nor.	S.
		Lake	3.9	80	16	1.0	60	2 Nor.	S.
Test damaged by cattle—yields not included in district summary			Rainfall record incomplete						
ANDY G. PEZDERIC, ASQUITH									
13	6	Thatcher	17.0	—	—	—	60	2 Nor.	S.
		Canthatch	16.0	—	—	—	60	2 Nor.	S.
		Selkirk	17.2	—	—	—	58	2 Nor.	S.
		Pembina	14.9	—	—	—	60	2 Nor.	S.
		Lake	17.7	—	—	—	59	2 Nor.	S.
Yield differences not significant			Rainfall—May to August—4.27 inches						
VINCENT AND LEONARD SCHEIDL, WAKAW									
13	9	Thatcher	27.0	81	20	1.0	63	1 Nor.	—
		Canthatch	25.8	82	21	2.0	64	1 Nor.	—
		Selkirk	21.5	83	20	2.0	63	1 Nor.	—
		Pembina	21.4	82	16	2.0	63	1 Nor.	—
		Lake	25.5	85	27	1.0	64	1 Nor.	—
Necessary difference—3.59 bushels			Rainfall record incomplete						
DONALD JENKINS, HUMBOLDT									
13	10	Thatcher	20.9	91	23	1.0	65	1 Nor.	—
		Canthatch	20.6	90	23	1.0	65	1 Nor.	—
		Selkirk	19.1	89	21	1.0	63	1 Nor.	—
		Pembina	18.2	88	22	1.0	65	1 Nor.	—
		Lake	19.0	95	27	1.0	64	1 Nor.	—
Yield differences not significant			Rainfall—May to August—2.00 inches						

# WHEAT POOL DISTRICT 14

RICHARD F. SELCH, KUROKI									
14	1	Thatcher	—	91	27	2.0	65	1 Nor.	—
		Canthatch	—	91	28	2.8	64	1 Nor.	—
		Selkirk	—	91	27	1.3	63	2 Nor.	S.
		Pembina	—	90	27	2.5	64	1 Nor.	—
		Lake	—	92	29	2.3	63	2 Nor.	S.
Part of test damaged by animals—yields not reliable					Rainfall—May to August—2.91 inches				
LORNE K. TYACKE, SILVER PARK									
14	3	Thatcher	15.9	—	—	—	63	2 Nor.	St.
		Canthatch	16.3	—	—	—	64	1 Nor.	—
		Selkirk	16.1	—	—	—	62	2 Nor.	S.
		Pembina	13.1	—	—	—	63	2 Nor.	S.
		Lake	13.1	—	—	—	64	1 Nor.	—
Necessary difference—2.24 bushels					Rainfall—May to August—2.97 inches				

# Wheat Pool District 14—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
GARRY W. HIRON, ROSE VALLEY									
14	4	Thatcher	18.0	—	—	—	63	2 Nor.	S.
		Canthatch	17.3	—	—	—	64	1 Nor.	—
		Selkirk	17.5	—	—	—	61	2 Nor.	S.
		Pembina	15.9	—	—	—	61	2 Nor.	S.
		Lake	18.9	—	—	—	63	1 Nor.	—
Yield differences not significant					Rainfall—May to August—2.40 inches				
ELAINE C. ADAM, NOBLEVILLE									
14	5	Thatcher	14.5	91	26	2.0	64	1 Nor.	—
		Canthatch	16.8	93	24	1.8	64	1 Nor.	—
		Selkirk	14.1	91	24	1.3	63	1 Nor.	—
		Pembina	12.7	89	24	5.0	64	1 Nor.	—
		Lake	15.1	97	28	1.0	64	1 Nor.	—
Yield differences not significant					Rainfall—May to August—4.22 inches				
ROBERT R. ROVENSKY, PEESANE									
14	7	Thatcher	—	—	18	1.3	61	2 Nor.	B., S.
		Canthatch	—	—	17	1.0	62	2 Nor.	B., S.
		Selkirk	—	—	18	1.3	60	2 Nor.	B., S.
		Pembina	—	—	16	1.0	61	2 Nor.	B., S.
		Lake	—	—	19	1.0	62	2 Nor.	B., S.
Test damaged by animals—yields not reliable					Rainfall—May to August—2.39 inches				
G. HARVEY HEAVIN, MELFORT									
14	8	Thatcher	21.6	89	28	2.0	64	1 Nor.	—
		Canthatch	20.5	88	27	2.0	64	1 Nor.	—
		Selkirk	18.0	89	26	2.5	62	2 Nor.	S.
		Pembina	18.3	88	25	2.5	63	1 Nor.	S.
		Lake	20.3	92	28	5.0	63	1 Nor.	S.
Yield differences not significant					Rainfall—May to August—3.14 inches				
Tests discarded on account of damage by pests, hail, drought or other causes:									
14	10	Melvin R. Barros, Carlea							

## WHEAT POOL DISTRICT 15

DENNIS BAUDAIS, DOMREMY									
15	2	Thatcher	16.3	83	25	6.3	61	2 Nor.	B.
		Canthatch	14.3	82	24	5.0	62	2 Nor.	B.
		Selkirk	12.5	86	23	6.3	58	2 Nor.	—
		Pembina	13.0	82	23	7.0	60	2 Nor.	B.
		Lake	11.0	84	26	6.3	59	2 Nor.	B.
Yield differences not significant				Rainfall—May to August—3.24 inches					
THEODORE PFEFFERLE, ROSTHERN									
15	3	Thatcher	27.3	—	28	—	64	1 Nor.	—
		Canthatch	25.5	—	28	—	64	1 Nor.	—
		Selkirk	25.2	—	28	—	62	2 Nor.	S.
		Pembina	22.0	—	28	—	62	2 Nor.	S.
		Lake	24.8	—	28	—	64	1 Nor.	S.
Yield differences not significant				Rainfall—May to August—3.27 inches					
DOUGLAS A. HAROLDSON, SHELL LAKE									
15	6	Thatcher	27.9	88	27	2.5	63	1 Nor.	—
		Canthatch	28.3	94	26	2.0	64	1 Nor.	—
		Selkirk	25.4	95	26	2.5	63	1 Nor.	—
		Pembina	24.7	93	24	1.8	63	1 Nor.	—
		Lake	27.7	98	32	6.8	63	1 Nor.	—
Necessary difference—2.42 bushels				Rainfall—May to August—3.06 inches					
WILLIAM H. BLOCK, SHELLBROOK									
15	8	Thatcher	44.9	—	27	—	64	1 Nor.	—
		Canthatch	45.0	—	25	—	65	1 Nor.	—
		Selkirk	39.0	—	26	—	63	1 Nor.	—
		Pembina	38.7	—	25	—	64	1 Nor.	—
		Lake	36.0	—	29	—	64	1 Nor.	—
Necessary difference—4.45 bushels				Rainfall—May to August—4.51 inches					



# Wheat Pool District 15—Continued

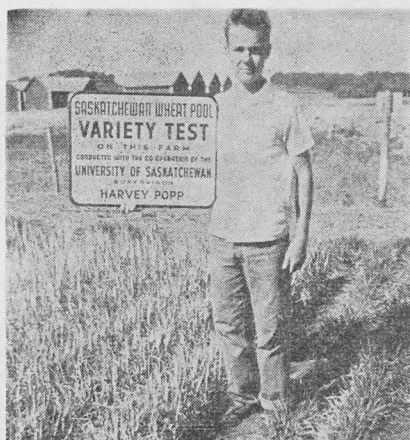
Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
GARY C. BRANDON, WHITE STAR									
15	9	Thatcher	26.2	87	28	1.3	65	1 Nor.	—
		Canthatch	28.3	87	29	1.0	63	1 Nor.	—
		Selkirk	22.1	87	29	1.0	64	1 Nor.	—
		Pembina	18.2	87	28	1.0	64	1 Nor.	—
		Lake	26.1	93	30	1.8	64	1 Nor.	—
Necessary difference—4.89 bushels			Rainfall—May to August—3.47 inches						
RONALD W. TYCHOLIZ, MEATH PARK									
15	10	Thatcher	11.8	89	20	1.3	65	1 Nor.	—
		Canthatch	11.0	90	19	2.3	65	1 Nor.	—
		Selkirk	9.5	89	18	1.8	63	1 Nor.	—
		Pembina	9.7	87	18	1.3	64	1 Nor.	—
		Lake	11.8	93	22	2.8	65	1 Nor.	—
Necessary difference—1.73 bushels			Rainfall—May to August—3.31 inches						

# WHEAT POOL DISTRICT 16

JOHN M. CLAIR, RADISSON									
16	1	Thatcher	13.3	84	21	2.0	63	1 Nor.	—
		Canthatch	12.1	84	21	2.0	64	1 Nor.	—
		Selkirk	12.7	84	20	2.8	60	2 Nor.	S.
		Pembina	10.9	84	20	2.0	61	2 Nor.	S.
		Lake	12.9	84	23	2.3	63	1 Nor.	—
Yield differences not significant				Rainfall—May to August—2.27 inches					
GORDON K. JACKSON, SPEERS									
16	2	Thatcher	18.8	91	20	3.5	62	2 Nor.	S.
		Canthatch	19.5	91	19	3.0	63	1 Nor.	—
		Selkirk	18.8	91	20	2.0	59	2 Nor.	—
		Pembina	16.9	91	19	3.0	60	2 Nor.	S.
		Lake	17.9	94	20	2.3	63	1 Nor.	—
Yield differences not significant				Rainfall—May to August—2.81 inches					
GREVILLE G. EDGELOW, CAVALIER									
16	4	Thatcher	34.0	96	30	1.0	63	1 Nor.	—
		Canthatch	32.4	93	25	3.0	64	1 Nor.	—
		Selkirk	30.3	93	26	1.0	62	2 Nor.	S.
		Pembina	27.1	95	25	2.5	62	2 Nor.	S.
		Lake	30.5	97	24	2.0	63	1 Nor.	—
Necessary difference—4.23 bushels				Rainfall—May to August—4.22 inches					
C. TERENCE TOWNLEY-SMITH, LASHBURN									
16	6	Thatcher	31.6	—	—	—	61	2 Nor.	S.
		Canthatch	33.8	—	—	—	63	2 Nor.	S.
		Selkirk	32.3	—	—	—	60	2 Nor.	S.
		Pembina	25.2	—	—	—	62	2 Nor.	S.
		Lake	23.1	—	—	—	58	2 Nor.	S.
Necessary difference—5.62 bushels				Rainfall—May to August—6.94 inches					
JOE R. C. ROTHERY, PARADISE HILL									
16	7	Thatcher	30.9	93	33	1.0	62	1 Nor.	—
		Canthatch	32.7	93	30	1.0	63	1 Nor.	—
		Selkirk	31.5	93	29	1.0	60	2 Nor.	S.
		Pembina	28.8	91	29	3.0	62	2 Nor.	S.
		Lake	28.4	96	35	1.0	61	2 Nor.	S.
Necessary difference—2.36 bushels				Rainfall—May to August—4.85 inches					
MURIEL McCONNELL, GLASLYN									
16	9	Thatcher	7.4	94	20	1.0	65	1 Nor.	—
		Canthatch	6.2	96	20	1.0	65	1 Nor.	—
		Selkirk	6.0	93	20	1.0	64	1 Nor.	—
		Pembina	6.1	93	20	1.0	65	1 Nor.	—
		Lake	6.2	95	20	1.0	64	1 Nor.	—
Yield differences not significant				Rainfall—May to August—3.19 inches					

# Wheat Pool District 16—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
HILDA C. TOEWS, MAYFAIR									
16	10	Thatcher	10.1	81	18	1.0	63	1 Nor.	—
		Canthatch	12.2	79	19	1.0	64	1 Nor.	—
		Selkirk	11.5	79	18	1.0	62	1 Nor.	—
		Pembina	9.7	79	19	1.0	62	2 Nor.	T.
		Lake	11.5	85	17	1.0	63	1 Nor.	—
Yield differences not significant			Rainfall—May to August—2.61 inches						
FRANCIS L. ARLETT, LOON LAKE									
16	11	Thatcher	24.7	103	31	1.0	65	1 Nor.	—
		Canthatch	27.6	103	30	1.0	65	1 Nor.	—
		Selkirk	30.1	100	31	1.0	64	1 Nor.	—
		Pembina	20.5	100	29	1.0	65	1 Nor.	—
		Lake	23.2	105	33	1.0	65	1 Nor.	—
Yield differences not significant			Rainfall—May to August—9.64 inches						



Like many 1961 tests, Harvey Popp's barley test was very short.



Dr. E. N. Larter of the University of Saskatchewan discussed barley breeding with a group of supervisors who visited the university.

## OAT TESTS

A total of 79 oat tests were seeded in 1961. Each test contained the five varieties Garry, Rodney, Exeter, Glen and Russell.

### DESCRIPTION OF VARIETIES

**Garry** was developed by the Canada Department of Agriculture at Winnipeg. It is resistant to all races of rust now prevalent, and to loose and covered smut. Garry has strong straw and is medium early in maturity.

**Rodney** was developed by the Canada Department of Agriculture at Winnipeg. It is late maturing and has medium tall, strong straw. It has fair resistance to stem and crown rust and good resistance to smut. It has large, plump kernels which tend to peel in threshing.

**Exeter** was developed by the Canada Department of Agriculture at Winnipeg. It is a late maturing variety with mid-tall, mid-strong straw. It is susceptible to smut, to some races of stem rust and to crown rust.

**Glen** was developed at Macdonald College, Quebec from a cross between Ajax and Roxton. It is early maturing and has medium-long, medium-strong straw. It is moderately resistant to stem and crown rust and to covered smut, but susceptible to loose smut.

**Russell** was developed by the Canada Department of Agriculture in Ontario and licensed for commercial distribution in 1960. It is medium-early in maturity and has medium-short, strong straw. It is resistant to stem and crown rust and to smut.

### PERFORMANCE OF VARIETIES

TABLE No. 9—AVERAGE YIELD IN BUSHELS PER ACRE—  
SUMMARIZED BY DISTRICTS

Districts**	No. of Satisfactory Tests	Garry	Rodney	Exeter	Glen	Russell	Necessary Difference* in Bushels
District 1	1	21.3	20.7	20.8	19.9	11.8	5.57
District 2	1	15.1	10.7	14.8	16.3	8.8	5.04
District 3	3	23.6	18.6	15.5	23.7	17.7	2.62
District 4	3	40.2	31.1	40.6	44.5	38.4	N.S.
District 5	2	18.8	16.0	16.2	22.8	20.4	N.S.
District 6	2	26.3	25.8	25.6	29.9	25.1	N.S.
District 7	2	13.9	12.9	15.6	16.2	11.5	N.S.
District 8	5	36.9	39.6	45.1	44.3	32.9	2.86
District 9	3	33.6	38.0	37.1	34.0	27.9	3.29
District 10	3	28.0	25.4	26.1	27.1	26.2	N.S.
District 11	1	30.6	27.9	32.3	31.0	31.8	N.S.
District 12	3	38.4	36.5	37.9	38.6	35.7	N.S.
District 13	4	32.7	28.3	34.4	35.8	30.9	1.69
District 14	6	36.4	33.7	36.3	35.9	32.4	3.12
District 15	5	40.6	39.7	43.8	42.9	38.0	N.S.
District 16	8	46.7	44.3	48.8	49.0	39.0	2.06

\*Necessary Difference—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary Difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular area.

N.S.—Yield differences not significant.

\*\*See map, page 5.

Table No. 9. Glen yielded well throughout most of the province in 1961, placing first or second in nearly all Wheat Pool districts. On an average basis Exeter placed second, followed by Garry and Rodney in that order. In most districts Russell was outyielded by the other four varieties tested. When comparing these varieties it should be kept in mind that in 1961 there was little or no rust in any area of the province. Where rust may be expected to occur only resistant varieties such as Garry and Russell should be grown. Rodney is a suitable second choice for rust conditions although it is not resistant to as many races as the other two varieties.



Arnold Vermette placed his sign along the road close to his test at Elrose.



Douglas Seidlitz stands in front of his barley test at Richardson.

TABLE No. 10—AVERAGE NUMBER OF DAYS FROM SEEDING TO RIPENING SUMMARIZED BY DISTRICTS

District	Garry	Rodney	Exeter	Glen	Russell
District 1	71.0	71.0	71.0	71.0	71.0
District 2	78.0	81.0	81.0	80.0	80.0
District 3	85.0	83.0	84.0	82.5	85.5
District 4	77.0	78.0	78.0	76.0	77.5
District 5	74.0	76.0	77.0	70.0	72.0
District 6	77.3	78.3	79.0	76.7	78.0
District 7	78.0	76.0	80.0	73.0	80.0
District 8	85.0	86.3	84.7	84.0	84.7
District 9	74.0	77.5	77.0	74.0	77.0
District 10	75.0	74.0	76.0	75.0	75.0
District 11	74.0	74.0	74.0	74.0	74.0
District 12	86.5	88.5	88.5	85.0	86.5
District 13	82.8	83.5	83.5	82.5	82.8
District 14	84.0	85.5	86.5	83.5	84.0
District 15	84.3	85.3	84.0	82.7	83.0
District 16	88.3	88.8	89.5	88.0	89.2

Table No. 10. Early maturity is an important factor where early fall frosts are likely to occur. Under drought conditions an early maturing variety may suffer less from heat than does a later maturing variety. Of the five varieties tested **Glen** was consistently earlier than the other four. **Garry** was second earliest on an average basis. **Russell**, **Rodney** and **Exeter** matured in that order on an average basis, although there was little difference in maturity among these three.

TABLE No. 11—AVERAGE HEIGHT OF PLANTS IN INCHES—SUMMARIZED BY DISTRICTS

District	Garry	Rodney	Exeter	Glen	Russell
District 1	21.0	21.0	21.0	20.0	18.0
District 2	20.0	19.0	22.0	20.0	21.0
District 3	22.0	18.0	19.0	19.0	16.5
District 4	30.5	29.5	30.0	29.0	28.5
District 5	24.5	23.0	22.5	22.5	21.0
District 6	23.3	21.3	22.3	22.3	21.3
District 7	26.0	25.0	23.0	22.0	22.0
District 8	25.8	25.0	23.8	24.5	22.8
District 9	26.3	25.7	24.7	24.0	22.7
District 10	18.7	17.7	17.7	18.0	16.3
District 11	22.0	22.0	22.0	22.0	22.0
District 12	29.3	27.3	28.0	27.0	23.7
District 13	25.8	25.5	25.0	25.3	21.8
District 14	31.4	31.4	31.0	30.8	29.6
District 15	24.0	24.0	23.8	23.8	21.0
District 16	32.0	31.7	30.9	31.7	29.3



Table No. 11. Length of straw is an important characteristic in oats because this crop tends to lodge in the field under adverse weather conditions. In this regard, however, straw strength as well as length must be considered. Of the five varieties tested Russell was consistently shorter than the others. On an average basis Glen was second shortest, while Exeter and Rodney ranked third and fourth respectively. Garry was generally somewhat taller than the other varieties tested.

TABLE No. 12—AVERAGE STRAW STRENGTH OF PLANTS ON THE BASIS  
1 (Strong) to 9 (Weak)  
SUMMARIZED BY AREAS

District	Garry	Rodney	Exeter	Glen	Russell
District 1	1.0	1.0	1.0	1.0	1.0
District 2	—	—	—	—	—
District 3	1.0	1.0	1.0	1.0	1.0
District 4	1.0	1.0	1.0	1.0	1.0
District 5	2.0	1.7	1.7	1.9	2.3
District 6	1.5	2.4	3.1	2.2	2.8
District 7	1.8	1.3	2.3	3.0	2.8
District 8	1.5	1.7	2.2	1.4	1.3
District 9	2.5	1.7	1.7	2.0	3.2
District 10	3.1	2.3	2.2	3.3	2.0
District 11	2.0	2.0	2.0	2.0	2.0
District 12	1.5	1.5	1.5	2.5	1.5
District 13	2.5	2.7	2.9	2.7	1.9
District 14	2.8	2.8	2.3	2.4	2.6
District 15	2.0	2.0	2.2	2.2	2.4
District 16	1.8	1.7	3.3	1.9	2.1

Table No. 12. In most areas of the province growth was quite short in 1961, and harvest weather was very favorable so there was no evidence of straw weakness in these tests. On an average basis the five varieties ranked in the following order with regard to straw strength: Rodney, Garry, Exeter, Russell, Glen.

TABLE No. 13—AVERAGE WEIGHT PER MEASURED BUSHEL—  
SUMMARIZED BY DISTRICTS

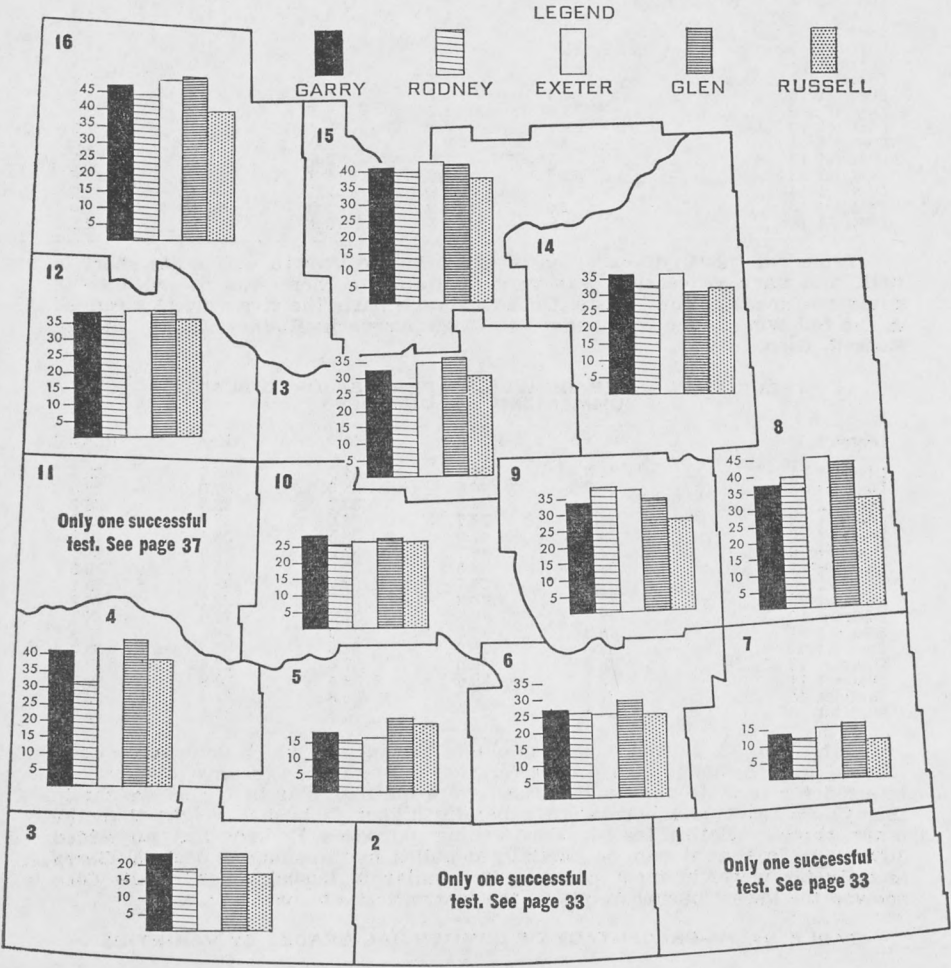
District	Garry	Rodney	Exeter	Glen	Russell
District 1	34.0	34.0	34.0	33.0	35.0
District 2	38.5	40.5	38.0	37.0	39.0
District 3	33.7	36.3	32.7	32.3	36.7
District 4	37.0	37.7	36.0	35.7	38.7
District 5	39.5	41.0	38.5	36.5	40.0
District 6	37.3	38.7	37.3	37.0	38.3
District 7	36.5	38.5	37.0	35.0	39.0
District 8	37.8	39.7	38.7	38.0	39.7
District 9	39.7	40.3	38.3	38.7	40.7
District 10	39.0	40.3	37.3	36.0	38.7
District 11	39.0	40.0	39.0	38.0	40.0
District 12	38.0	39.3	38.0	37.7	39.3
District 13	38.2	40.0	37.6	37.4	39.8
District 14	38.1	39.6	38.4	36.9	39.1
District 15	37.6	39.0	38.6	37.4	39.2
District 16	38.9	39.0	38.6	38.1	39.5

Table No. 13. Bushel weight is one of the factors which determines commercial grades and is also a consideration in the choice of an oat variety to be used for feed. Rodney and Russell were quite similar in bushel weight in this year's tests, and both were generally higher in bushel weight than the other three varieties tested. For feeding purposes Rodney has an added advantage in that it can be partially dehulled in threshing if desired. Garry and Exeter were, in most cases, quite similar in bushel weight while Glen showed the lowest bushel weight of the five varieties tested.

TABLE No. 14—PERCENTAGE OF COMMERCIAL GRADES BY VARIETIES

Variety	1 C.W. %	2 C.W. %	3 C.W. %	Ex. 1 Feed %	1 Feed %	2 Feed %	3 Feed %
Garry	10.3	27.6	36.2	5.2	19.0	1.7	—
Rodney	—	27.6	38.0	17.2	13.8	3.4	—
Exeter	5.2	13.8	39.7	8.6	29.3	1.7	1.7
Glen	10.3	24.2	29.4	10.3	24.1	—	1.7
Russell	17.2	34.5	17.3	15.5	13.8	1.7	—

**Table No. 14.** Weather conditions in 1961 caused uneven germination and late stooling in many tests. As a result many oat samples contained green kernels which caused them to be degraded. Of the five varieties tested, **Garry** graded well with 74.1 per cent of the samples falling in the C.W. grades. **Russell** ranked second with 69.0 per cent of the samples falling in these grades. **Rodney**, with 65.6 per cent, and **Glen** with 63.9 per cent of the samples in the top three grades, were reasonably similar. **Exeter** graded slightly lower than the other four varieties with 58.7 per cent of the samples falling in the C.W. grades.



**GRAPHS SHOWING OAT YIELDS IN 1961**

TABLE No. 15

## INDIVIDUAL SUMMARIZED RESULTS OF ALL TESTS—OATS

The results of all successful oats tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. Before consulting the following table the reader is advised to refer to the discussion on page 5, headed, "Facts To Be Remembered in Reading Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the discussion on a district basis which notes the performance of the same varieties in a large number of tests.

For an explanation of the abbreviations under "Grading Remarks", see Page 7.

## WHEAT POOL DISTRICT 1

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
ROBERT G. BENNETT, ARCOLA									
1	9	Garry	21.3	71	21	1.0	34	1 Fd.	G.
		Rodney	20.7	71	21	1.0	34	1 Fd.	G.
		Exeter	20.8	71	21	1.0	34	1 Fd.	G.
		Glen	19.9	71	20	1.0	33	2 Fd.	G.
		Russell	11.8	71	18	1.0	35	1 Fd.	G.
Necessary difference—5.57 bushels					Rainfall—May to August—3.67 inches				
Tests discarded on account of damage by pests, hail, drought or other causes:									
1	1	Bruce F. Porter, Carnduff							
1	5	Donald F. Mack, Estevan							
1	10	Gerald F. Weber, Arcola							

## WHEAT POOL DISTRICT 2

GORDON G. BRADLEY, WILLOW BUNCH									
2	4	Garry	—	—	—	—	39	3 CW	G.
		Rodney	—	—	—	—	41	2 CW	G.
		Exeter	—	—	—	—	39	3 CW	G.
		Glen	—	—	—	—	37	2 CW	G.
		Russell	—	—	—	—	40	2 CW	G.
Part of test damaged—yields not reliable			Rainfall record incomplete						
DENNIS R. MCGOWAN, KILLDEER									
2	5	Garry	—	—	—	—	36	2 CW	—
		Rodney	—	—	—	—	(A)	2 CW	(E)
		Exeter	—	—	—	—	(A)	2 CW	(E)
		Glen	—	—	—	—	36	2 CW	—
		Russell	—	—	—	—	39	1 CW	—
Part of test damaged—yields not reliable			Rainfall—May to August—4.00 inches						
JAMES F. WEBB, AMULET									
2	10	Garry	15.1	78	20	—	38	2 CW	G.
		Rodney	10.7	81	19	—	40	2 CW	G.
		Exeter	14.8	81	22	—	37	3 CW	G.
		Glen	16.3	80	20	—	37	2 CW	—
		Russell	8.8	80	21	—	38	3 CW	G.
Necessary difference 5.04 bushels			Rainfall—May to August—3.42 inches						
Tests discarded on account of damage by pests, hail, drought or other causes:									
2	1	Daniel D. Bellavance, Radville							
2	9	Blair T. Knudsen, Glasnevin							

## WHEAT POOL DISTRICT 3

RONALD J. STENGLER, MANKOTA									
3	1	Garry	26.2	—	—	—	39	2 CW	G.
		Rodney	17.7	—	—	—	40	3 CW	G.
		Exeter	21.3	—	—	—	37	3 CW	G.
		Glen	22.6	—	—	—	36	3 CW	G.
		Russell	21.5	—	—	—	39	2 CW	G.
Yield differences not significant			Rainfall—May to August—2.36 inches						

### Wheat Pool District 3—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
GREGORY J. HONEY, BRACKEN									
3	3	Garry	29.4	92	30	1.0	34	3 CW	—
		Rodney	26.0	88	24	1.0	37	3 CW	G.
		Exeter	14.2	90	26	1.0	34	3 CW	—
		Glen	36.3	87	25	1.0	34	3 CW	—
		Russell	16.2	93	23	1.0	38	1 CW	—
Necessary difference—5.93 bushels			Rainfall—May to August—4.34 inches						
ALAN R. DUMONTEL, DIVIDE									
3	4	Garry	15.1	78	14	—	28	2 Fd.	—
		Rodney	12.2	78	12	—	32	2 Fd.	—
		Exeter	11.1	78	12	—	27	3 Fd.	—
		Glen	12.2	78	13	—	27	3 Fd.	—
		Russell	15.5	78	10	—	33	2 Fd.	—
Necessary difference—1.67 bushels			Rainfall—May to August—3.21 inches						
Tests discarded on account of damage by pests, hail, drought or other causes:									
3	6	Donald Koenig, Ravenscrag							
3	9	Jerome F. Wernicke, Cadillac							

### WHEAT POOL DISTRICT 4

GERALD R. MILLER, WEBB									
4	4	Garry	22.9	—	—	—	38	1 CW	—
		Rodney	15.5	—	—	—	39	3 CW	—
		Exeter	23.8	—	—	—	37	3 CW	G.
		Glen	32.7	—	—	—	35	3 CW	—
		Russell	27.4	—	—	—	39	1 CW	—
Necessary difference—4.48 bushels			Rainfall record incomplete						
GREGORY SORENSEN, CABRI									
4	5	Garry	28.6	81	24	1.0	39	1 CW	—
		Rodney	15.4	83	24	1.0	40	2 CW	G.
		Exeter	23.5	83	24	1.0	39	1 CW	—
		Glen	31.0	79	24	1.0	38	1 CW	—
		Russell	25.5	81	24	1.0	41	1 CW	—
Necessary difference—5.24 bushels			Rainfall—May to August—5.44 inches						
RONALD MOSER, BURSTALL									
4	8	Garry	69.1	73	37	—	34	1 Fd.	—
		Rodney	62.4	73	35	—	34	1 Fd.	—
		Exeter	74.6	73	36	—	32	2 Fd.	—
		Glen	69.9	73	34	—	34	1 Fd.	G.
		Russell	62.4	74	33	—	36	1 Fd.	G.
Yield differences not significant			Rainfall—May to August—2.70 inches						

### WHEAT POOL DISTRICT 5

ROBERT DUCKWORTH, COURVAL									
5	6	Garry	18.0	74	23	1.5	39	3 CW	G.
		Rodney	13.9	76	21	1.0	41	3 CW	G.
		Exeter	12.9	77	19	1.0	37	Ex. 1 Fd.	G.
		Glen	22.1	70	20	1.0	34	1 Fd.	—
		Russell	20.3	72	20	1.3	40	2 CW	G.
Necessary difference—2.82 bushels				Rainfall record incomplete					
DARLENE G. NELSON, AQUADELL									
5	9	Garry	19.5	—	26	2.5	40	2 CW	G.
		Rodney	18.0	—	25	2.3	41	2 CW	G.
		Exeter	19.5	—	26	2.3	40	3 CW	G.
		Glen	23.9	—	25	2.8	39	3 CW	G.
		Russell	20.4	—	22	3.3	40	2 CW	G.
Yield differences not significant				Rainfall—May to August—2.43 inches					
Tests discarded on account of damage by pests, hail, drought or other causes:									
5	2	Terry E. Brown, Bateman							
5	8	E. Wayne Knarr, Eskbank							



### WHEAT POOL DISTRICT 6

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
RONALD H. SANDERSON, AVONLEA									
6	4	Garry	26.9	79	19	2.5	40	1 CW	—
		Rodney	23.8	78	19	3.0	41	2 CW	G.
		Exeter	28.3	79	18	4.3	40	2 CW	G.
		Glen	29.4	76	19	3.5	38	1 CW	—
		Russell	19.5	78	19	4.0	39	1 CW	—
Test damaged. Yields not included in district summary					Rainfall—May to August—3.67 inches				
CHRISTOPHER R. HALE, PITMAN									
6	6	Garry	17.6	72	21	1.0	34	1 Fd.	G.
		Rodney	17.4	74	16	1.0	36	1 Fd.	G.G.
		Exeter	18.0	74	21	1.0	35	1 Fd.	G.G.
		Glen	20.7	74	20	1.0	35	1 Fd.	G.G.
		Russell	17.1	74	18	1.0	36	1 Fd.	G.
Necessary differences 1.80			bushels		Rainfall—May to August—4.91 inches				
BONNY LYNNE GIBBONS, GILLESPIE									
6	9	Garry	35.0	81	30	1.0	38	2 CW	G.
		Rodney	34.1	83	29	3.3	39	2 CW	G.G.
		Exeter	33.1	84	28	4.0	37	3 CW	—
		Glen	39.0	80	28	2.0	38	1 CW	—
		Russell	33.1	82	27	3.5	40	1 CW	—
Necessary differences 3.88			bushels		Rainfall—May to August—1.85 inches				
Tests discarded on account of damage by pests, hail, drought or other causes:									
6	5	Gary E. McKenzie, Belbeck							

### WHEAT POOL DISTRICT 7

JAMES A. CAIRNS, LANGBANK									
7	3	Garry	20.1	78	26	1.8	37	3 CW	G.
		Rodney	20.7	76	25	1.3	41	3 CW	G.
		Exeter	22.6	80	23	2.3	37	3 CW	G.
		Glen	20.1	73	22	3.0	36	2 CW	G.
		Russell	17.2	80	22	2.8	39	Ex. 1 Fd.	G.
Yield differences not significant					Rainfall record incomplete				
ANGELA BRUCH, KILLALY									
7	11	Garry	7.7	—	—	—	36	3 CW	G.
		Rodney	5.0	—	—	—	36	3 CW	G.
		Exeter	8.5	—	—	—	37	3 CW	G.
		Glen	12.2	—	—	—	34	3 CW	G.
		Russell	5.7	—	—	—	39	2 CW	G.
Necessary difference—1.30 bushels					Rainfall record incomplete				
Tests discarded on account of damage by pests, hail, drought or other causes:									
7	1	C. Orville Fisk, Kelso							
7	9	V. Clifton Hinrikson, Spy Hill							
7	10	George E. Ohnander, Jr., Stockholm							

### WHEAT POOL DISTRICT 8

<b>JAMES R. F. TOMKINS, SALTCOATS</b>									
8	2	Garry	21.6	—	21	1.8	36	1 Fd.	G.
		Rodney	19.9	—	23	1.3	38	Ex. 1 Fd.	G.G.
		Exeter	22.4	—	21	1.3	37	1 Fd.	G.G.
		Glen	25.3	—	19	1.3	38	Ex. 1 Fd.	G.
		Russell	17.2	—	22	1.5	38	Ex. 1 Fd.	G.
Part of test damaged by animals—yields not included in district summary					Rainfall—May to August—2.48 inches				

# Wheat Pool District 8—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
HAROLD P. LUCASH, VERIGIN									
8	5	Garry	32.9	82	25	1.0	39	2 CW	G.
		Rodney	28.9	86	22	3.0	41	2 CW	G.
		Exeter	32.2	82	21	2.0	40	1 CW	—
		Glen	31.9	83	22	1.0	38	2 CW	G.
		Russell	27.5	81	19	1.0	41	2 CW	G.
Yield differences not significant					Rainfall—May to August—2.52 inches				
EDWIN PASLOSKI, RAMA									
8	7	Garry	17.1	—	—	—	39	3 CW	G.
		Rodney	16.9	—	—	—	42	3 CW	G.
		Exeter	20.8	—	—	—	39	3 CW	G.
		Glen	22.6	—	—	—	39	3 CW	G.
		Russell	20.8	—	—	—	42	2 CW	G.
Yield differences not significant					Rainfall—May to August—1.98 inches				
LYNN M. ROSAASEN, HINCHLIFFE									
8	8	Garry	35.0	—	—	—	35	1 Fd.	—
		Rodney	33.8	—	—	—	36	1 Fd.	—
		Exeter	34.8	—	—	—	36	1 Fd.	—
		Glen	37.8	—	—	—	35	1 Fd.	—
		Russell	29.1	—	—	—	37	1 Fd.	—
Yield differences not significant					Rainfall—May to August—2.79 inches				
RUSSELL P. SAWCHUK, ARRAN									
8	10	Garry	28.0	88	21	2.3	40	3 CW	G.
		Rodney	28.9	88	20	1.5	42	3 CW	G.
		Exeter	31.9	87	17	4.5	42	2 CW	G.
		Glen	32.6	88	20	2.3	41	3 CW	G.
		Russell	25.2	88	17	1.8	41	3 CW	G.
Necessary difference—3.41 bushels					Rainfall—May to August—4.03 inches				
THERESA M. NICHOLLS, VEILLARDVILLE									
8	11	Garry	71.5	85	36	1.0	38	3 CW	G.
		Rodney	89.3	85	35	1.0	39	3 CW	G.
		Exeter	105.7	85	36	1.0	38	1 Fd.	G.
		Glen	96.4	81	37	1.0	37	1 Fd.	G.
		Russell	61.8	85	33	1.0	39	3 CW	G.
Necessary difference—11.99 bushels					Rainfall—May to August—4.77 inches				
Tests discarded on account of damage by pests, hail, drought or other causes:									
8	3	Sheryl C. Schick, Duff							

# WHEAT POOL DISTRICT 9

ALLAN RIEDEL, KELLIHER									
9	1	Garry	29.6	69	21	2.5	40	2 CW	G.
		Rodney	33.1	76	23	2.0	41	3 CW	G.
		Exeter	32.5	76	21	1.0	39	1 Fd.	G.
		Glen	30.1	69	20	1.0	39	2 CW	G.
		Russell	28.3	72	19	3.5	41	2 CW	G.
Yield differences not significant					Rainfall—May to August—2.67 inches				
ERIK L. HALLIDAY, LESTOCK									
9	3	Garry	52.1	79	34	3.0	39	2 CW	G.
		Rodney	61.6	79	31	1.0	39	3 CW	G.
		Exeter	57.8	78	30	2.0	37	3 CW	G.
		Glen	53.4	79	30	3.0	39	1 CW	—
		Russell	39.7	82	29	4.0	40	1 CW	—
Necessary difference—8.69 bushels					Rainfall—May to August—2.95 inches				
BARRY G. MILLER, TUFFNELL									
9	9	Garry	19.1	—	24	2.0	40	2 CW	G.
		Rodney	19.4	—	23	2.0	41	Ex. 1 Fd.	G.
		Exeter	21.0	—	23	2.0	39	3 CW	G.
		Glen	18.4	—	22	2.0	38	Ex. 1 Fd.	G.
		Russell	15.6	—	20	2.0	41	3 C.W.	G.
Yield differences not significant					Rainfall—May to August—3.16 inches				
Tests discarded on account of damage by pests, hail, drought or other causes:									
9	5	Gordon M. Schmidt, Duval							

## WHEAT POOL DISTRICT 10

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
WILSON G. BARTON, BEECHY									
10	3	Garry	60.0	—	24	—	40	2 CW	G.
		Rodney	60.2	—	24	—	42	Ex. 1 Fd.	G.
		Exeter	62.1	—	24	—	40	3 CW	G.
		Glen	58.5	—	24	—	39	2 CW	G.
		Russell	55.6	—	20	—	41	2 CW	G.
Yield differences not significant					Rainfall—May to August—3.70 inches				
DENNIS G. LUCKI, HAWARDEN									
10	6	Garry	15.1	75	15	3.3	39	3 CW	G.
		Rodney	8.8	74	13	1.5	40	2 CW	G.
		Exeter	10.3	76	14	1.3	37	3 CW	G.
		Glen	14.5	75	14	3.5	35	3 CW	G.
		Russell	15.6	75	15	1.5	37	2 CW	G.
Necessary difference—2.93 bushels					Rainfall—May to August—5.10 inches				
GORDON K. JONES, AMAZON									
10	8	Garry	9.0	—	17	2.8	38	3 CW	G.
		Rodney	7.1	—	16	3.0	39	3 CW	G.
		Exeter	5.8	—	15	3.0	35	3 CW	G.
		Glen	8.3	—	16	3.0	34	3 CW	G.
		Russell	7.4	—	14	2.5	38	2 CW	G.
Yield differences not significant					Rainfall record incomplete				
Tests discarded on account of damage by pests, hail, drought or other causes:									
10	4	John E. L. McPhail, Wiseton							

## WHEAT POOL DISTRICT 11

LEONA AND LORRAINE BENDER, GLIDDEN									
11	3	Garry	30.6	74	22	2.0	39	2 CW	G.
		Rodney	27.9	74	22	2.0	40	2 CW	G.
		Exeter	32.3	74	22	2.0	39	3 CW	G.
		Glen	31.0	74	22	2.0	38	1 CW	—
		Russell	31.8	74	22	2.0	40	2 CW	G.
Yield differences not significant					Rainfall record incomplete				
Tests discarded on account of damage by pests, hail, drought or other causes:									
11	5	Herbert and Duane Lock, Pinkham							
11	8	Richard D. England, Stranraer							

## WHEAT POOL DISTRICT 12

BRUCE J. MARTIN, TRAYNOR									
12	2	Garry	27.7	—	22	—	38	3 CW	G.
		Rodney	23.2	—	21	—	41	3 CW	G.
		Exeter	26.2	—	21	—	38	Ex. 1 Fd.	G.
		Glen	25.8	—	21	—	37	1 Fd.	G.
		Russell	23.7	—	18	—	39	Ex. 1 Fd.	G.
Yield differences not significant					Rainfall—May to August—4.64 inches				
VALENTINE F. J. USSELMAN, CACTUS LAKE									
12	6	Garry	34.7	85	29	1.0	38	Ex. 1 Fd.	G.
		Rodney	34.3	85	27	1.0	39	Ex. 1 Fd.	G.
		Exeter	34.9	85	28	1.0	39	Ex. 1 Fd.	G.
		Glen	32.5	85	25	1.0	38	Ex. 1 Fd.	G.
		Russell	29.1	83	23	1.0	40	3 CW	G.
Yield differences not significant					Rainfall—May to August—6.19 inches				
IRENE A. KEAY, UNITY									
12	7	Garry	52.7	88	37	2.0	38	3 CW	G.
		Rodney	52.0	92	34	2.0	38	3 CW	G.
		Exeter	52.5	92	35	2.0	37	1 Fd.	G.
		Glen	57.6	85	35	4.0	38	2 CW	G.
		Russell	54.2	90	30	2.0	39	2 CW	G.
Yield differences not significant					Rainfall—May to August—10.09 inches				
Tests discarded on account of damage by pests, hail, drought or other causes:									
12	3	William C. Dick, Landis							

# WHEAT POOL DISTRICT 13

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
CAROL J. KEHLER, WATROUS									
13	2	Garry	17.6	89	22	1.0	39	2 CW	G.
		Rodney	13.1	89	22	1.0	41	3 CW	G.
		Exeter	18.4	89	22	1.8	37	3 CW	G.
		Glen	16.3	89	20	1.8	38	2 CW	G.
		Russell	14.3	91	20	1.5	41	2 CW	G.
Necessary difference—2.90 bushels			Rainfall—May to August—3.68 inches						
MICHAEL F. SUMMERFELDT, DUNDURN									
13	3	Garry	—	—	—	—	36	1 Fd.	G.
		Rodney	—	—	—	—	39	Ex. 1 Fd.	G.
		Exeter	—	—	—	—	35	1 Fd.	G.
		Glen	—	—	—	—	35	1 Fd.	G.
		Russell	—	—	—	—	38	Ex. 1 Fd.	G.
Part of test damaged—yields not reliable			Rainfall record incomplete						
DIANE E. M. GRYSCHUK, ELSTOW									
13	4	Garry	71.1	75	34	2.0	40	2 CW	G.
		Rodney	71.0	80	36	1.0	42	Ex. 1 Fd.	G.
		Exeter	72.9	78	35	2.5	41	Ex. 1 Fd.	G.
		Glen	81.3	75	34	1.0	41	3 CW	G.
		Russell	63.8	73	29	1.0	42	3 CW	G.
Necessary difference—3.93 bushels			Rainfall—May to August—4.44 inches						
WALDO E. ELLIOT, SONNINGDALE									
13	7	Garry	14.3	90	18	5.0	38	Ex. 1 Fd.	G.
		Rodney	10.2	89	18	5.0	39	Ex. 1 Fd.	G.
		Exeter	16.5	90	17	5.3	36	1 Fd.	G.
		Glen	17.4	89	21	5.3	35	1 Fd.	G.
		Russell	13.4	90	15	4.0	38	Ex. 1 Fd.	G.
Necessary difference—1.48 bushels			Rainfall—May to August—3.28 inches						
GLENN W. NEUFELD, ABERDEEN									
13	8	Garry	27.9	77	29	2.0	38	3 CW	G.
		Rodney	18.9	76	26	3.8	39	1 Fd.	G.
		Exeter	29.9	77	26	2.0	39	1 Fd.	G.
		Glen	28.3	77	26	2.8	38	Ex. 1 Fd.	G.
		Russell	31.9	77	23	1.0	40	2 CW	G.
Necessary difference—5.27 bushels			Rainfall—May to August—3.26 inches						
Tests discarded on account of damage by pests, hail, drought or other causes:									
13	11	Bernard J. Martin, St. Brieux							

# WHEAT POOL DISTRICT 14

LEONARD K. SCHWANKE, KUROKI									
14	1	Garry	67.9	80	33	2.0	41	1 CW	G.   G.   —
		Rodney	66.0	83	32	2.0	41	2 CW	
		Exeter	70.8	84	33	2.0	42	1 CW	
		Glen	69.6	82	33	2.0	40	2 CW	
		Russell	61.8	83	30	2.0	43	1 CW	
Yield differences not significant					Rainfall—May to August—3.46 inches				
JAMES M. MILNE, PASWEGIN									
14	2	Garry	16.9	—	—	1.3	39	1 CW	— G. G. G. —
		Rodney	14.5	—	—	1.3	40	2 CW	
		Exeter	14.2	—	—	1.0	39	2 CW	
		Glen	15.2	—	—	1.3	37	3 CW	
		Russell	14.7	—	—	2.0	39	1 CW	
Necessary difference—1.32 bushels					Rainfall—May to August—1.73 inches				
LESTER O. SANDAKER, ARCHERWILL									
14	4	Garry	28.4	83	28	3.0	39	Ex. 1 Fd.	G. G. G. G. —
		Rodney	26.5	85	30	1.5	41	2 CW	
		Exeter	22.8	84	29	1.0	40	2 CW	
		Glen	29.2	82	28	1.8	39	2 CW	
		Russell	24.2	83	26	2.0	40	1 CW	
Yield differences not significant					Rainfall—May to August—3.56 inches				
MERVIN D. BELANKO, PRAIRIE RIVER									
14	6	Garry	26.8	91	41	2.3	37	3 CW	G. G. G. G. G.
		Rodney	27.7	92	40	2.5	41	3 CW	
		Exeter	41.7	96	40	1.5	37	1 Fd.	
		Glen	24.9	88	39	1.5	36	3 CW	
		Russell	24.1	88	39	2.0	40	3 CW	
Necessary difference—9.97 bushels					Rainfall record incomplete				



# Wheat Pool District 14—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
LORNE T. McCONAGHY, BEATTY									
14	8	Garry	—	—	—	—	34	1 Fd.	—
		Rodney	—	—	—	—	37	2 CW	—
		Exeter	—	—	—	—	36	2 CW	—
		Glen	—	—	—	—	34	3 CW	—
		Russell	—	—	—	—	36	2 CW	—
Test damaged—yields not reliable					Rainfall—May to August—2.33 inches				
E. MURRAY OAKENFOLD, WELDON									
14	9	Garry	21.1	82	25	6.0	38	1 Fd.	G.
		Rodney	17.9	82	23	6.0	38	1 Fd.	G.
		Exeter	20.9	82	24	6.0	36	1 Fd.	G.
		Glen	20.6	82	24	6.0	34	1 Fd.	G.
		Russell	19.8	82	23	6.0	37	1 Fd.	G.
Yield differences not significant					Rainfall—May to August—2.02 inches				
GEORGE F. STAFFEN, NIPAWIN									
14	11	Garry	57.4	—	30	2.0	39	2 CW	G.
		Rodney	49.8	—	32	2.0	39	3 CW	G.
		Exeter	47.3	—	29	2.0	39	3 CW	G.
		Glen	56.1	—	30	2.0	38	3 CW	G.
		Russell	49.7	—	30	1.8	39	Ex. 1 Fd.	G.
Yield differences not significant					Rainfall—May to August—1.59 inches				

# WHEAT POOL DISTRICT 15

JOSEPH M. SIKORSKI, ALVENA									
15	2	Garry	32.2	—	26	2.0	37	1 Fd.	G.
		Rodney	31.4	—	25	2.0	37	1 Fd.	G.
		Exeter	32.7	—	24	2.0	35	1 Fd.	G.
		Glen	33.2	—	25	1.8	35	1 Fd.	G.
		Russell	31.4	—	23	1.8	38	Ex. 1 Fd.	G.
Yield differences not significant				Rainfall—May to August—3.15 inches					
LARRY B. THIESSEN, HEPBURN									
15	4	Garry	29.2	81	22	2.0	36	1 Fd.	G., W.
		Rodney	27.7	82	22	1.8	39	1 Fd.	G., W.
		Exeter	30.4	81	21	1.8	38	1 Fd.	G., W.
		Glen	29.8	81	21	1.8	36	1 Fd.	G., W.
		Russell	28.0	81	21	1.8	39	1 Fd.	G., W.
Yield differences not significant				Rainfall—May to August—2.70 inches					
AIME G. BRASSARD, DEBDEN									
15	7	Garry	80.2	—	—	—	39	3 CW	G.
		Rodney	72.9	—	—	—	41	3 CW	G.
		Exeter	88.9	—	—	—	41	3 CW	G.
		Glen	80.6	—	—	—	39	Ex. 1 Fd.	G.
		Russell	73.3	—	—	—	38	1 Fd.	G., W.
Yield differences not significant				Rainfall—May to August—3.49 inches					
DONALD B. TYCHOLIZ, MEATH PARK									
15	10	Garry	23.0	89	20	2.0	39	3 CW	G.
		Rodney	24.8	90	23	2.0	38	Ex. 1 Fd.	G.
		Exeter	27.1	86	23	2.8	40	Ex. 1 Fd.	G.
		Glen	25.0	85	21	3.3	38	Ex. 1 Fd.	G.
		Russell	20.7	86	18	2.8	40	Ex. 1 Fd.	G.
Necessary difference—3.99 bushels				Rainfall—May to August—3.31 inches					
MIKE RUDNISKI, SMEATON									
15	11	Garry	38.4	83	28	2.0	37	3 CW	G.
		Rodney	41.8	84	26	2.0	40	3 CW	G.
		Exeter	40.0	85	27	2.0	39	3 CW	G.
		Glen	46.0	82	28	2.0	39	2 CW	G.
		Russell	36.6	82	22	3.0	41	2 CW	G.
Yield differences not significant				Rainfall—May to August—3.10 inches					

Tests discarded on account of damage by pests, hail, drought or other causes:

15 9 Marcel Painchaud, Albertville

# **WHEAT POOL DISTRICT 16**

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
RONNIE W. KALYN, HAFFORD									
16	2	Garry	32.8	86	25	2.8	42	2 CW	G.
		Rodney	27.6	87	23	2.8	43	2 CW	G.
		Exeter	31.4	87	23	4.5	40	2 CW	G.
		Glen	29.4	87	24	3.0	41	1 CW	—
		Russell	28.9	86	22	3.0	42	2 CW	G.
Yield differences not significant			Rainfall—May to August—3.17 inches						
BORIS EWANCHUK, WHITKOW									
16	3	Garry	35.7	89	30	1.0	39	2 CW	G.
		Rodney	36.0	89	33	1.0	40	2 CW	G.
		Exeter	36.2	87	30	2.0	38	3 CW	G.
		Glen	33.7	89	30	2.0	37	3 CW	G.
		Russell	33.7	89	31	2.0	40	2 CW	G.
Yield differences not significant			Rainfall—May to August—3.98 inches						
KENNETH W. WESSON, MAIDSTONE									
16	5	Garry	60.8	90	37	1.0	41	3 CW	G.
		Rodney	69.3	92	37	1.0	39	3 CW	G.
		Exeter	70.8	93	34	1.0	40	3 CW	G.
		Glen	69.8	90	38	1.0	39	3 CW	G.
		Russell	59.9	91	34	1.0	41	3 CW	G.
Necessary difference—6.87 bushels			Rainfall—May to August—5.61 inches						
EVELYN AND LINDA LONG, FURNESS									
16	6	Garry	79.6	86	41	3.3	37	1 Fd.	G.
		Rodney	78.1	86	39	2.0	38	Ex. 1 Fd.	G.
		Exeter	77.7	89	39	5.3	37	1 Fd.	G.
		Glen	86.7	81	39	2.3	38	3 CW	G.
		Russell	60.8	89	37	4.3	40	2 CW	G.
Necessary difference—6.46 bushels			Rainfall—May to August—7.17 inches						
ROBERT JETZKE, SPRUCE LAKE									
16	8	Garry	65.0	—	36	1.0	42	1 CW	—
		Rodney	63.6	—	33	1.0	40	3 CW	G.
		Exeter	74.2	—	33	2.0	40	3 CW	G.
		Glen	73.5	—	34	1.3	41	2 CW	G.
		Russell	46.2	—	30	1.0	40	3 CW	G.
Necessary difference—10.61 bushels			Rainfall—May to August—4.57 inches						
JOHN WARRINGTON, MERVIN									
16	8	Garry	36.5	94	25	1.3	39	3 CW	G.
		Rodney	33.6	94	26	1.3	42	3 CW	G.
		Exeter	36.8	94	26	2.8	42	2 CW	G.
		Glen	40.6	94	25	1.5	39	2 CW	G.
		Russell	30.7	94	23	1.3	40	3 CW	G.
Necessary difference—4.74 bushels			Rainfall—May to August—4.75 inches						
R. JAMES SEIDLE, MEDSTEAD									
16	9	Garry	27.2	85	30	2.0	37	3 CW	G.
		Rodney	24.4	85	31	2.8	38	Ex. 1 Fd.	G.
		Exeter	25.5	87	31	5.5	37	1 Fd.	G.
		Glen	25.8	87	32	2.3	36	1 Fd.	G.
		Russell	23.9	86	28	2.3	39	Ex. 1 Fd.	G.
Yield differences not significant			Rainfall—May to August—2.95 inches						
DONALD J. SITTER, MEADOW LAKE									
16	11	Garry	35.8	—	—	—	34	3 CW	—
		Rodney	21.7	—	—	—	32	2 Fd.	—
		Exeter	37.8	—	—	—	35	1 Fd.	G.
		Glen	32.8	—	—	—	34	1 Fd.	G.
		Russell	28.0	—	—	—	34	1 Fd.	G.
Necessary difference—4.42 bushels			Rainfall—May to August—7.10 inches						

## BARLEY TESTS

A total of 114 barley tests were seeded in 1961. Each of these contained the five varieties Jubilee, Keystone, Hannchen, Betzes and Palliser.

### DESCRIPTION OF VARIETIES

**Jubilee** is a six-rowed, feed variety developed at the University of Saskatchewan from the cross Peatland X Regal X O.A.C. 21<sup>2</sup> X Husky. It is medium late maturing and has medium tall, strong straw. Jubilee is resistant to stem rust but susceptible to smuts.

**Keystone** is a six-rowed feed variety developed by the Canada Department of Agriculture at Brandon, Manitoba. It is a late maturing variety with mid-long, strong straw. Keystone is the first available barley variety with resistance to loose smut. It is resistant to stem rust and moderately resistant to covered smut.

**Hannchen** is a selection made in Canada from a variety which originated in Sweden. It is a medium late maturing variety which is susceptible to rusts and smuts. Hannchen has mid-short, mid-weak straw. It is eligible for the highest two row grades.

**Betzes** is a mid-late maturing variety introduced from Poland and licensed for commercial distribution in 1960. It is susceptible to rusts and smuts and has fair straw strength. Betzes is eligible for the highest two-row grades.

**Palliser** was developed by the Canada Department of Agriculture at Lethbridge and licensed for commercial distribution in 1960. It is a two-rowed, mid-late variety which is susceptible to rusts and smuts. It has fair straw strength and good resistance to shattering and head breakage. Palliser is not eligible for grades higher than 3 C.W. two-row.

### PERFORMANCE OF VARIETIES

TABLE No. 16—AVERAGE YIELDS IN BUSHELS PER ACRE—  
SUMMARIZED BY DISTRICTS

District**	No. of Satisfactory Tests	Jubilee	Keystone	Hannchen	Betzes	Palliser	Necessary Difference* in Bushels
District 1	1	24.1	26.5	23.7	23.1	27.6	2.00
District 2	4	12.2	23.1	19.6	22.3	24.1	2.53
District 3	1	2.6	6.7	3.4	5.1	6.3	2.24
District 4	3	8.0	15.6	7.9	12.5	12.9	1.18
District 5	5	20.1	25.6	27.0	29.2	29.4	2.08
District 6	3	14.9	18.1	16.0	16.3	19.7	N.S.
District 7	5	15.2	22.9	25.4	24.9	25.2	N.S.
District 8	2	15.5	19.1	21.0	24.3	21.4	N.S.
District 9	6	15.0	19.4	23.3	26.9	24.1	1.96
District 10	1	33.1	24.4	35.3	38.0	32.9	8.19
District 11	1	36.3	41.6	34.4	42.7	38.3	N.S.
District 12	7	33.4	36.6	33.3	35.3	36.5	1.89
District 13	7	28.0	32.7	29.8	31.8	32.1	1.67
District 14	6	35.0	35.9	33.9	36.0	39.9	3.28
District 15	7	20.9	21.7	22.8	21.4	25.1	1.85
District 16	6	49.4	54.7	47.7	51.2	50.0	2.92

\*Necessary Difference—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary Difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular area.

N.S.—Yield differences not significant.

\*\*See map, page 5.

Table No. 16. Of the five varieties tested in 1961 both Palliser and Betzes yielded favorably. Each produced top yields in a number of districts, and where yield is concerned, for this year there is little to choose between them. Keystone was on the average somewhat lower in yield but in five districts it produced the highest yield of the five varieties tested. Hannchen placed fourth in yield on an average basis. Jubilee was not outstanding in yield in any district. These yields must be compared in relation to the conditions which prevailed in the province in 1961. There was little or no incidence of rust, and

drought conditions were more widespread than usual. Palliser, Betzes and Hannchen are all susceptible to rust and would not be suitable where rust conditions are likely to occur. Keystone is resistant to stem rust but susceptible to leaf rust. Under less severe drought conditions Jubilee might be expected to yield relatively better than it did in 1961.

TABLE No. 17—AVERAGE NUMBER OF DAYS FROM SEEDING TO RIPENING—SUMMARIZED BY DISTRICTS

District	Jubilee	Keystone	Hannchen	Betzes	Palliser
District 1 .....	—	—	—	—	—
District 2 .....	79.5	80.0	79.5	78.5	79.5
District 3 .....	—	—	—	—	—
District 4 .....	83.0	82.5	83.0	82.5	83.0
District 5 .....	83.0	79.8	82.2	79.8	84.0
District 6 .....	77.0	68.0	77.0	68.0	73.0
District 7 .....	89.0	85.0	86.7	86.7	87.0
District 8 .....	84.0	84.0	84.0	84.0	84.0
District 9 .....	91.0	86.3	89.3	86.7	88.3
District 10 .....	86.0	83.0	83.0	82.0	87.0
District 11 .....	81.5	78.5	81.5	79.5	79.5
District 12 .....	89.0	86.3	88.3	87.8	89.0
District 13 .....	89.2	86.8	89.2	87.2	88.8
District 14 .....	84.4	82.1	82.7	82.0	84.6
District 15 .....	93.0	88.2	90.6	88.4	90.2
District 16 .....	88.8	85.0	89.0	86.2	88.0

Table No. 17. Early maturity is an important factor when considering a variety for use where frost can be expected to occur. In this year's tests Keystone matured earlier than the other four varieties in most of the districts. Betzes was slightly later in maturity. Hannchen, Palliser and Jubilee ranked third, fourth and fifth respectively on an average basis.

TABLE No. 18—AVERAGE HEIGHT OF PLANTS IN INCHES SUMMARIZED BY DISTRICTS

District	Jubilee	Keystone	Hannchen	Betzes	Palliser
District 1 .....	15.0	16.0	17.0	17.0	20.0
District 2 .....	12.5	16.0	14.5	14.0	15.5
District 3 .....	15.0	15.0	17.0	14.0	15.0
District 4 .....	15.0	19.0	15.0	15.7	13.0
District 5 .....	15.9	17.1	16.3	16.3	17.7
District 6 .....	21.0	22.0	23.0	22.0	23.0
District 7 .....	14.6	16.0	16.4	15.6	17.4
District 8 .....	14.0	15.0	15.0	15.0	15.5
District 9 .....	14.4	17.0	17.2	15.8	17.6
District 10 .....	14.7	16.0	16.3	16.7	17.3
District 11 .....	18.0	19.7	19.0	18.3	20.0
District 12 .....	19.6	21.1	19.7	17.3	20.0
District 13 .....	17.5	19.8	19.7	18.0	20.8
District 14 .....	18.8	20.5	21.7	20.2	21.8
District 15 .....	19.0	20.2	19.7	19.0	21.2
District 16 .....	24.8	27.0	26.2	24.2	27.0



Despite the dry year, Darlene Nelson grew a fairly heavy stand of oats at Aquadell.



Evelyn and Linda Long of Furness conducted a test together in 1961.



Table No. 18. Depending on growing conditions short straw may be an advantage or disadvantage. Under dry conditions short-strawed varieties may be difficult to harvest. However, under more favorable growing conditions, long-strawed varieties may tend to lodge in the field under certain weather conditions. Of course consideration must be given to strength of straw as well as length. Of the five varieties tested in 1961, Jubilee had the shortest straw in nearly all districts. Betzes had the second shortest straw on an average basis. Hannchen and Keystone were quite similar in height and Palliser was fairly consistently taller than the other four varieties tested.

TABLE No. 19—AVERAGE STRAW STRENGTH OF PLANTS ON THE BASIS  
1 (Strong) to 9 (Weak)  
SUMMARIZED BY DISTRICTS

District	Jubilee	Keystone	Hannchen	Betzes	Palliser
District 1	—	—	—	—	—
District 2	2.4	2.0	2.3	2.9	2.6
District 3	2.5	2.4	2.5	2.8	2.4
District 4	4.2	3.8	3.4	3.7	3.8
District 5	2.9	3.0	3.1	3.6	3.1
District 6	3.0	3.0	3.0	3.0	3.0
District 7	1.7	1.8	1.8	2.5	2.2
District 8	2.3	1.5	1.5	2.3	1.4
District 9	1.5	1.8	2.0	1.9	2.2
District 10	1.9	2.2	2.7	2.6	3.1
District 11	2.7	2.5	2.7	2.8	2.9
District 12	1.4	1.8	2.0	3.3	3.0
District 13	1.9	2.0	2.1	2.2	2.4
District 14	1.3	1.6	2.3	2.8	2.4
District 15	2.9	2.6	3.2	3.6	2.6
District 16	2.4	2.4	2.4	3.3	2.9

Table No. 19. This factor is important if a crop remains standing for any extended time under adverse weather conditions. The degree of lodging under these conditions will be affected by both length and strength of straw. In 1961 most barley crops were quite short and because there was very little adverse weather at harvest time, no serious straw weakness was evident. On an average basis the five varieties ranked in the following order with regard to straw strength: Keystone, Jubilee, Hannchen, Palliser, Betzes.

TABLE No. 20—AVERAGE NECK STRENGTH OF PLANTS ON THE BASIS  
1 (Strong) to 3 (Weak)  
SUMMARIZED BY DISTRICTS

District	Jubilee	Keystone	Hannchen	Betzes	Palliser
District 1	—	—	—	—	—
District 2	1.4	1.4	1.8	2.4	2.1
District 3	1.5	2.5	2.3	1.8	2.0
District 4	1.8	1.3	1.9	2.0	1.8
District 5	1.5	1.6	1.8	2.6	1.9
District 6	1.0	1.0	1.0	1.0	1.0
District 7	1.4	2.0	1.7	2.6	2.1
District 8	1.4	1.3	1.7	1.8	1.3
District 9	1.6	1.7	1.9	2.4	1.7
District 10	1.8	2.1	1.8	2.4	2.1
District 11	1.9	1.7	1.9	2.3	2.1
District 12	1.8	1.4	2.1	2.5	2.3
District 13	1.3	1.6	1.6	1.7	1.8
District 14	1.2	1.3	2.0	2.3	1.9
District 15	1.4	1.1	1.4	1.7	1.2
District 16	1.8	1.3	1.8	2.3	2.1

Table No. 20. Some varieties of barley, while they may have strong straw, tend when ripe to break off below the head. These heads are then lost on the ground. Of the five varieties tested in 1961 Jubilee showed the least tendency to neck weakness. Keystone ranked second on an average basis, with Hannchen and Palliser placing third and fourth respectively. Betzes was somewhat weaker than the four other varieties tested.

TABLE No. 21—AVERAGE WEIGHT PER MEASURED BUSHEL—  
SUMMARIZED BY DISTRICTS

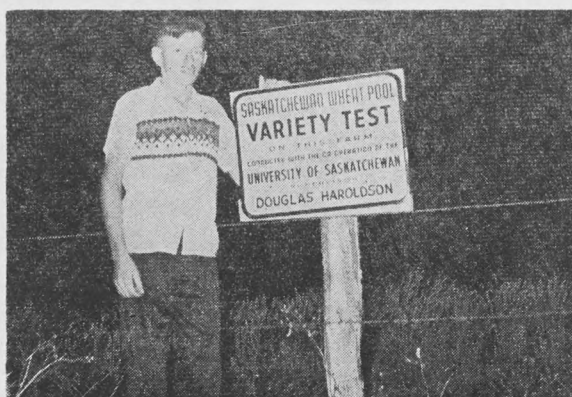
District	Jubilee	Keystone	Hannchen	Betzes	Palliser
District 1	48.0	50.5	54.5	54.5	50.0
District 2	47.5	48.3	51.3	51.5	46.8
District 3	42.0	41.0	48.0	47.0	43.0
District 4	41.3	44.0	46.3	47.3	42.0
District 5	46.7	48.0	53.0	52.4	48.0
District 6	44.3	45.0	50.3	49.3	47.3
District 7	47.2	47.8	51.8	51.0	47.4
District 8	45.5	44.5	51.5	50.0	46.5
District 9	47.3	46.6	52.4	52.0	48.4
District 10	47.3	49.3	52.0	52.3	48.0
District 11	47.3	48.0	52.0	51.7	48.7
District 12	48.5	48.8	53.6	53.0	49.1
District 13	48.4	48.4	53.1	52.9	49.1
District 14	48.6	47.5	53.1	52.1	48.8
District 15	47.9	47.0	51.9	50.1	47.0
District 16	50.0	49.1	53.3	52.9	50.3

Table No. 21. Bushel weight is one of the factors which determine commercial grades. **Hannchen** showed consistently high bushel weight in the 1961 tests. Samples of **Betzes** also weighed up well and on the average this variety placed second of the five varieties tested. On an average basis **Palliser** ranked third and **Keystone** placed fourth. Samples of **Jubilee** were in most cases lower in bushel weight than those of other varieties.

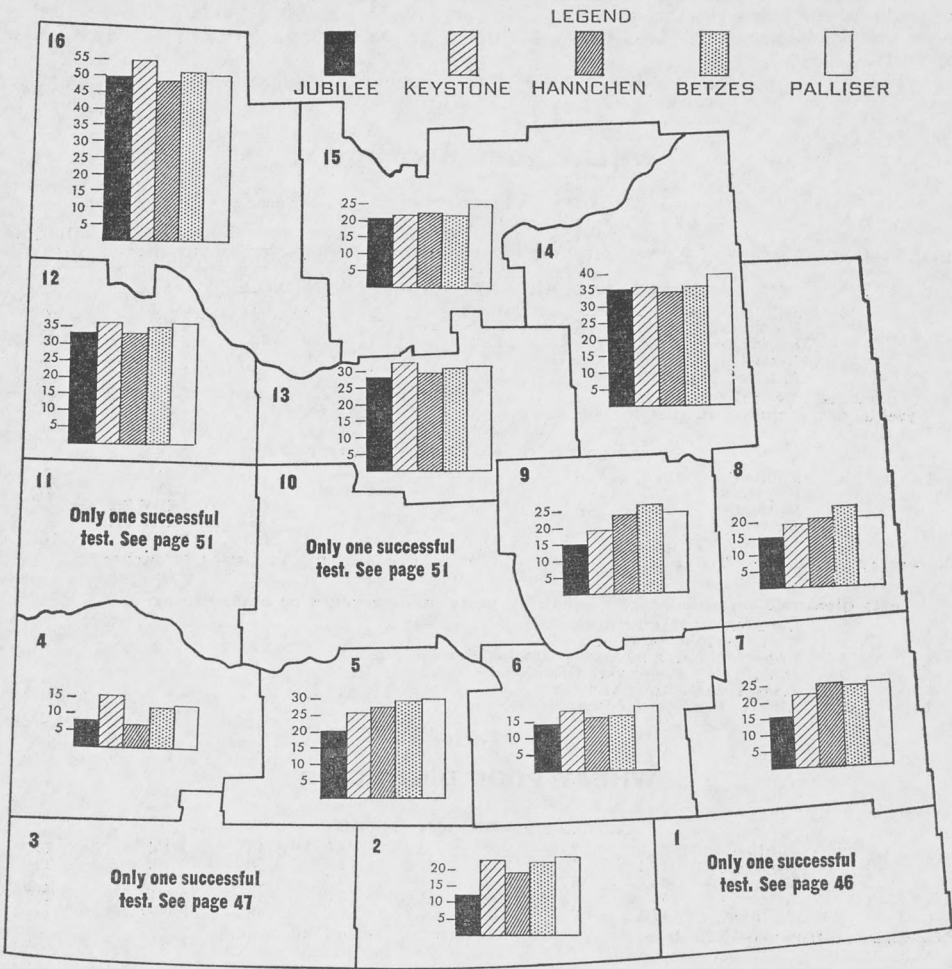
TABLE No. 22—PERCENTAGE OF COMMERCIAL GRADES BY VARIETIES

Variety	1 C.W. %	2 C.W. %	3 C.W. %	1 Feed %	2 Feed %	3 Feed %
Jubilee	—	—	—	84.4	9.1	6.5
Keystone	—	—	—	87.0	9.1	3.9
Hannchen	13.0	27.3	35.0	23.4	1.3	—
Betzes	10.4	27.3	41.5	20.8	—	—
Palliser	—	—	83.1	9.1	3.9	3.9

Table No. 22. Because of their different characteristics it is not possible to make a direct comparison of these varieties. **Jubilee** and **Keystone** are not eligible for grades higher than No. 1 Feed. **Hannchen** and **Betzes** are eligible for the highest C.W. two-row grades, and **Palliser** is not eligible for grades higher than 3 C.W. two-row. There was no appreciable difference in grade between the two feed varieties **Jubilee** and **Keystone**. **Hannchen** and **Betzes** also were virtually equal with regard to grade. A large proportion of the samples of **Palliser** fell in the highest grade for which this variety is eligible.



This sign welcomed visitors to the Wheat Pool test conducted by Douglas Haroldson at Shell Lake.



**GRAPHS SHOWING BARLEY YIELDS IN 1961**

TABLE No. 23

## INDIVIDUAL SUMMARIZED RESULTS OF ALL TESTS—BARLEY

The results of all successful barley tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. Before consulting the following table the reader is advised to refer to the discussion on page 5, headed, "Facts To Be Remembered in Reading Results."

**Important**—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the discussion on a district basis which notes the performance of the same varieties in a large number of tests.

For an explanation of the abbreviations under "Grading Remarks", see Page 7.

## WHEAT POOL DISTRICT 1

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Commercial grades	Grading remarks
RONALD AND ALBERT RUCKABER, MIDALE										
1	6	Jubilee	13.2	—	15	—	—	46	2 Fd.	G.
		Keystone	21.3	—	16	—	—	49	1 Fd.	G.
		Hannchen	17.5	—	17	—	—	53	1 Fd.	T., G.
		Betzes	22.7	—	17	—	—	53	3 CW 2R	T.
		Palliser	19.9	—	20	—	—	48	3 CW 2R	G.
Test damaged by grasshoppers—yields not included in district summary							Rainfall—May to August—3.27 inches			

WALTER G. KOT, McTAGGART										
1	8	Jubilee	24.1	—	—	—	—	50	1 Fd.	T.
		Keystone	26.5	—	—	—	—	52	1 Fd.	T.
		Hannchen	23.7	—	—	—	—	56	1 CW 2R	—
		Betzes	28.1	—	—	—	—	56	1 CW 2R	—
		Palliser	27.6	—	—	—	—	52	3 CW 2R	G.
Necessary difference—2.00 bushels							Rainfall—May to August—4.76 inches			

Tests discarded on account of damage by pests, hail, drought or other causes:

1	2	Kenneth B. Hull, Alida
1	3	G. Lyle Fee, Alameda
1	4	Robert Zieglsanger, Roche Percee
1	7	Ronald W. Pederson, Bromhead
1	8	Joseph D. Alton, Griffin
1	10	Albert P. Cop, Redvers

## WHEAT POOL DISTRICT 2

GEORGE HARRISON, HARDY										
2	2	Jubilee	31.2	78	16	2.3	1.5	48	1 Fd.	T.
		Keystone	48.1	78	20	1.0	1.0	50	1 Fd.	T.
		Hannchen	41.6	77	19	1.0	1.3	53	3 CW 2R	T.
		Betzes	46.0	78	18	1.8	2.0	54	2 CW 2R	T.
		Palliser	47.1	78	21	1.3	1.3	48	3 CW 2R	—
Necessary difference—8.73 bushels							Rainfall record incomplete			

GARRY T. KUFFNER, GLENTWORTH										
2	6	Jubilee	2.1	81	9	2.5	1.3	46	1 Fd.	T.
		Keystone	9.4	82	12	3.0	1.8	45	1 Fd.	T.
		Hannchen	3.0	82	10	3.5	2.3	48	1 Fd.	T.
		Betzes	5.0	79	10	4.0	2.8	47	1 Fd.	T.
		Palliser	6.7	81	10	3.8	2.8	43	1 Fd.	T.
Necessary difference—.94 bushels							Rainfall—May to August—1.73 inches			

KENNETH R. W. THOMAS, WOOD MOUNTAIN										
2	7	Jubilee	2.6	—	—	—	—	46	1 Fd.	T.
		Keystone	8.4	—	—	—	—	47	1 Fd.	T.
		Hannchen	7.9	—	—	—	—	50	3 CW 2R	G., T.
		Betzes	8.4	—	—	—	—	51	3 CW 2R	T.
		Palliser	10.0	—	—	—	—	46	1 Fd.	G.
Yield differences not significant							Rainfall record incomplete			

### Wheat Pool District 2—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Commer- cial grades	Grading remarks
NORMAN R. LOWES, ASSINIBOIA										
2	8	Jubilee	12.7	—	—	—	—	50	1 Fd.	T.
		Keystone	26.6	—	—	—	—	51	1 Fd.	T.
		Hannchen	25.9	—	—	—	—	54	1 CW 2R	—
		Betzes	29.8	—	—	—	—	54	2 CW 2R	T.
		Palliser	32.4	—	—	—	—	50	3 CW 2R	G.
Necessary difference—2.78 bushels			Rainfall record incomplete							
Tests discarded on account of damage by pests, hail, drought or other causes:										
2	10	Brian L. Nast, Trossachs								
2	11	Robert M. Bellay, Bengough								

### WHEAT POOL DISTRICT 3

RUSSEL K. CARLETON, ORKNEY										
3	2	Jubilee	2.6	—	15	5.0	1.5	42	3 Fd.	T.
		Keystone	6.7	—	15	4.0	2.5	41	3 Fd.	T.
		Hannchen	3.4	—	17	4.5	2.3	48	1 Fd.	T.
		Betzes	5.1	—	14	2.8	1.8	47	1 Fd.	T.
		Palliser	6.3	—	15	4.0	2.0	43	2 Fd.	T.
Necessary difference—2.24 bushels					Rainfall—May to August—2.53 inches					
Tests discarded on account of damage by pests, hail, drought or other causes:										
3	4	Glenn V. Korsberg, Loomis								
3	5	Robert C. Aslin, Robsart								
3	7	Richard B. Girard, Eastend								
3	8	Ivan L. McMillan, Scotsguard								
3	9	Hugh E. McDonough, Crichton								
3	10	M. M. Edna Dumonceaux, Ponteix								

### WHEAT POOL DISTRICT 4

RONALD AND JIM APLEYARD, ANTELOPE										
4	4	Jubilee	16.9	76	17	1.0	1.0	43	2 Fd.	T.
		Keystone	22.4	75	22	1.0	1.0	44	2 Fd.	T.
		Hannchen	16.0	76	19	1.3	1.5	49	1 Fd.	T.
		Betzes	20.2	75	18	2.0	2.0	47	1 Fd.	T.
		Palliser	19.8	76	22	1.0	1.5	43	1 Fd.	T.
Necessary difference—1.75 bushels					Rainfall—May to August—4.03 inches					
ELLA HESCHL, RICHMOUND										
4	7	Jubilee	2.2	90	12	5.8	2.0	41	3 Fd.	T.
		Keystone	7.5	90	15	1.5	1.5	45	2 Fd.	T.
		Hannchen	3.4	90	11	3.5	2.3	46	1 Fd.	T.
		Betzes	5.9	90	12	2.5	1.8	47	1 Fd.	T.
		Palliser	5.4	90	13	2.0	1.8	41	3 Fd.	T.
Necessary difference—2.07 bushels					Rainfall—May to August—3.13 inches					
LORNE R. JOHNSON, ABBEY										
4	10	Jubilee	5.0	—	16	5.8	2.3	40	3 Fd.	T.
		Keystone	17.0	—	20	9.0	1.5	43	2 Fd.	T.
		Hannchen	4.2	—	15	5.5	2.0	44	2 Fd.	T.
		Betzes	11.4	—	17	6.5	2.3	48	1 Fd.	T.
		Palliser	13.5	—	19	8.5	2.0	42	3 Fd.	G.
Necessary difference—2.66 bushels					Rainfall—May to August—3.44 inches					
Tests discarded on account of damage by pests, hail, drought or other causes:										
4	1	Donald E. Mackenzie, Piapot								
4	2	Garry L. Ford, Maple Creek								
4	8	Victor R. Schimpf, Leader								
4	9	Bryon J. Kost, Lemsford								

### WHEAT POOL DISTRICT 5

<b>GORDON R. BELL, VANTAGE</b>										
5	1	Jubilee	16.7	84	17	2.5	2.3	49	1 Fd.	T.
		Keystone	31.1	77	17	2.3	1.8	50	1 Fd.	T.
		Hannchen	26.8	81	18	1.5	2.5	55	2 CW 2R	T.
		Betzes	30.1	78	15	3.5	2.5	54	2 CW 2R	T.
		Palliser	27.5	82	18	1.8	2.0	50	3 CW 2R	—
Necessary difference—7.04 bushels			Rainfall—May to August—3.86 inches							



# Wheat Pool District 5—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Commer- cial grades	Grading remarks
LINDA J. FRIESEN, BLUMENHOF										
5	3	Jubilee	11.3	88	14	1.5	1.5	48	1 Fd.	T.
		Keystone	13.3	85	15	1.8	1.8	50	1 Fd.	T.
		Hannchen	17.8	86	15	1.5	1.5	53	2 CW2R	T.
		Betzes	17.6	82	16	3.5	3.3	52	3 CW2R	T.
		Palliser	19.0	86	15	2.5	2.5	49	3 CW2R	G.
Necessary difference—3.97 bushels			Rainfall—May to August—2.38 inches							
RONALD P. GIESBRECHT, WYMARK										
5	4	Jubilee	—	81	11	1.8	1.0	46	1 Fd.	—
		Keystone	—	77	16	1.8	1.0	48	1 Fd.	T.
		Hannchen	—	80	12	2.3	2.0	53	1 Fd.	T.
		Betzes	—	79	15	2.5	2.0	52	1 Fd.	T.
		Palliser	—	80	17	2.3	1.3	49	3 CW2R	G.
Test damaged by grasshoppers—yields not reliable			Rainfall—May to August—2.97 inches							
DIERDRE A. PAULSON, HODGEVILLE										
5	5	Jubilee	13.6	—	13	1.3	1.3	47	1 Fd.	T.
		Keystone	18.6	—	15	1.8	2.0	47	1 Fd.	T.
		Hannchen	17.8	—	15	2.0	1.5	52	3 CW2R	T.
		Betzes	21.5	—	13	2.3	3.0	51	3 CW2R	T.
		Palliser	22.8	—	16	2.0	2.5	47	3 CW2R	G.
Necessary difference—4.48 bushels			Rainfall—May to August—2.60 inches							
GARY J. FAWCETT, PARKBEG										
5	7	Jubilee	22.4	—	13	9.0	2.0	49	1 Fd.	T.
		Keystone	25.0	—	13	9.0	2.0	49	1 Fd.	T.
		Hannchen	28.5	—	13	9.0	2.0	54	2 CW2R	T.
		Betzes	34.6	—	15	9.0	2.0	53	2 CW2R	T.
		Palliser	32.8	—	16	9.0	2.0	49	3 CW2R	—
Necessary difference—4.67 bushels			Rainfall—May to August—4.40 inches							
DAVID G. HICKS, MARQUIS										
5	8	Jubilee	36.4	84	18	1.0	1.0	51	1 Fd.	—
		Keystone	39.8	82	18	1.0	1.0	51	1 Fd.	—
		Hannchen	44.1	84	16	2.0	1.0	56	1 CW2R	—
		Betzes	42.3	82	16	1.0	3.0	55	1 CW2R	—
		Palliser	45.1	84	16	1.0	1.0	51	3 CW2R	—
Necessary difference—4.77 bushels			Rainfall—May to August—4.91 inches							
ELDO M. SCHMIDT, ERNFOLD										
5	10	Jubilee	—	78	25	—	—	37	3 Fd.	T.
		Keystone	—	78	26	—	—	41	3 Fd.	T.
		Hannchen	—	80	25	—	—	48	1 Fd.	T.
		Betzes	—	78	24	—	—	50	1 Fd.	T.
		Palliser	—	88	26	—	—	41	3 Fd.	T.
Test damaged by grasshoppers—yields not reliable			Rainfall—May to August—2.28 inches							

## WHEAT POOL DISTRICT 6

MELVIN J. SHORTLAND, BRIERCREST										
6	6	Jubilee	3.9	—	—	—	—	46	1 Fd.	—
		Keystone	7.9	—	—	—	—	46	1 Fd.	—
		Hannchen	4.5	—	—	—	—	51	3 CW2R	T.
		Betzes	6.8	—	—	—	—	50	3 CW2R	T.
		Palliser	6.9	—	—	—	—	48	3 CW2R	—
Necessary difference—2.30 bushels				Rainfall record incomplete						
DOUGLAS SEIDLITZ, RICHARDSON										
6	7	Jubilee	26.8	77	21	3.0	1.0	49	1 Fd.	—
		Keystone	24.4	68	22	3.0	1.0	50	1 Fd.	—
		Hannchen	25.2	77	23	3.0	1.0	53	3 CW2R	T., G.
		Betzes	24.9	68	22	3.0	1.0	52	3 CW2R	T., G.
		Palliser	35.1	73	23	3.0	1.0	51	3 CW2R	G.
Yield differences not significant				Rainfall—May to August—1.81 inches						
MALCOLM J. LANZ, AVONHURST										
6	8	Jubilee	13.9	—	—	—	—	38	3 Fd.	T.
		Keystone	21.9	—	—	—	—	39	3 Fd.	T.
		Hannchen	18.3	—	—	—	—	47	1 Fd.	T.
		Betzes	17.2	—	—	—	—	46	1 Fd.	T.
		Palliser	17.2	—	—	—	—	43	2 Fd.	T.
Yield differences not significant				Rainfall record incomplete						

# Wheat Pool District 6—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Commer- cial grades	Grading remarks
Tests discarded on account of damage by pests, hail, drought or other causes:										
6	2	Adam L. Tomaschefski, Odessa								
6	3	Marilyn C. Bradley, Milestone								
6	10	Richard G. Eberts, Lumsden								

## WHEAT POOL DISTRICT 7

PETER G. CHRISTIE, MOOSOMIN										
7	2	Jubilee	16.9	—	17	1.0	1.0	46	1 Fd.	—
		Keystone	33.9	—	19	1.0	2.0	47	1 Fd.	—
		Hannchen	37.2	—	18	1.0	1.5	50	3 CW2R	T.
		Betzes	31.7	—	18	1.0	1.3	48	3 CW2R	T., W.
		Palliser	29.6	—	20	1.0	2.0	46	3 CW2R	—
Necessary difference—12.56 bushels			Rainfall—May to August—2.90 inches							

DONALD AND ALBERT DAKU, KIPLING										
7	4	Jubilee	10.1	89	13	2.0	2.8	47	1 Fd.	—
		Keystone	14.3	84	14	2.8	3.0	47	1 Fd.	—
		Hannchen	13.2	89	14	2.3	2.3	52	3 CW2R	T.
		Betzes	15.0	87	13	3.0	2.8	52	3 CW2R	T.
		Palliser	17.9	89	15	2.8	3.0	48	3 CW2R	G.
Necessary difference—4.12 bushels			Rainfall—May to August—1.35 inches							

MARSHALL R. STAMM, GLENAVON										
7	6	Jubilee	14.3	—	14	3.0	1.0	47	1 Fd.	—
		Keystone	20.6	—	15	2.0	1.3	48	1 Fd.	—
		Hannchen	24.7	—	15	2.0	1.3	51	3 CW2R	T.
		Betzes	25.1	—	16	4.0	3.0	52	3 CW2R	T.
		Palliser	27.5	—	16	3.5	1.8	47	3 CW2R	—
Necessary difference—3.86 bushels			Rainfall—May to August—2.11 inches							

NORMAN H. ORE, ROCANVILLE										
7	8	Jubilee	20.4	87	16	1.0	1.0	49	1 Fd.	—
		Keystone	27.4	83	18	1.3	1.8	49	1 Fd.	—
		Hannchen	27.5	83	20	1.3	1.3	53	3 CW2R	T.
		Betzes	29.1	83	18	2.0	3.0	51	3 CW2R	T.
		Palliser	27.7	83	20	2.0	2.0	47	3 CW2R	—
Necessary difference—2.95 bushels			Rainfall—May to August—2.68 inches							

RALPH H. JAMIESON, LEMBERG										
7	11	Jubilee	14.5	91	13	1.5	1.3	47	1 Fd.	—
		Keystone	18.3	88	14	1.8	2.0	48	1 Fd.	—
		Hannchen	24.3	88	15	2.3	2.3	53	2 CW 2R	T.
		Betzes	23.5	90	13	2.5	3.0	52	2 CW 2R	T.
		Palliser	23.4	89	16	1.5	1.5	49	3 CW 2R	—
Necessary difference—4.97 bushels			Rainfall—May to August—2.61 inches							

Tests discarded on account of damage by pests, hail, drought or other causes:

7	1	Donald M. Hartlin, Mair								
7	7	Robert T. Wysoskey, Broadview								
7	10	Buddy Romanchuk and Douglas Ylazer, Esterhazy								

## WHEAT POOL DISTRICT 8

HARVEY N. POPP, MACNUTT										
8	1	Jubilee	6.7	84	12	1.0	1.0	44	2 Fd.	T., G.
		Keystone	4.0	84	12	1.0	1.0	43	2 Fd.	T., G.
		Hannchen	11.6	84	12	1.0	1.0	52	3 CW 2R	T.
		Betzes	12.1	84	12	1.0	1.0	51	3 CW 2R	T.
		Palliser	9.7	84	12	1.0	1.0	47	3 CW 2R	—
Necessary difference—5.49 bushels			Rainfall—May to August—2.49 inches							

CLIFTON R. SJOLIE, STURGIS										
8	8	Jubilee	24.3	—	16	3.5	1.8	47	1 Fd.	—
		Keystone	34.2	—	18	2.0	1.5	46	1 Fd.	—
		Hannchen	30.4	—	18	2.0	2.3	51	3 CW 2R	T., G.
		Betzes	36.5	—	18	3.5	2.5	49	3 CW 2R	T., G.
		Palliser	33.0	—	19	1.8	1.5	46	3 CW 2R	—
Yield differences not significant			Rainfall—May to August—2.69 inches							

# Wheat Pool District 8—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Commer- cial grades	Grading remarks
Tests discarded on account of damage by pests, hail, drought or other causes:										
8	4	Douglas A.	Badke, Springside							
8	6	Quentin A.	Weinbender, Burgis							
8	9	Graham R.	P. Mutch, Norquay							
8	9	Andrew M.	Rahn, Danbury							

## WHEAT POOL DISTRICT 9

ROBERT A. WEBER, GREGHERD										
9	2	Jubilee	—	—	14	1.5	1.5	47	1 Fd.	—
		Keystone	—	—	15	2.0	1.8	48	1 Fd.	—
		Hannchen	—	—	16	2.5	2.0	53	3 CW 2R	T.
		Betzes	—	—	16	3.3	3.0	51	3 CW 2R	T.
		Palliser	—	—	17	2.5	2.3	49	3 CW 2R	—
Test damaged by grasshoppers—yields not reliable						Rainfall—May to August—3.35 inches				

FRANCES J. MIKENAS, LEROSS										
9	3	Jubilee	13.3	91	14	1.0	2.0	47	1 Fd.	—
		Keystone	15.1	84	14	1.0	2.0	47	1 Fd.	—
		Hannchen	20.2	90	18	2.0	3.0	52	3 CW 2R	T.
		Betzes	20.1	81	14	1.0	2.0	53	3 CW 2R	T.
		Palliser	23.5	79	17	1.5	1.5	47	3 CW 2R	—
Necessary difference—3.49 bushels			Rainfall—May to August—2.95 inches							

JOHN P. BARBER, STRASBOURG										
9	4	Jubilee	10.8	86	16	2.0	1.0	47	1 Fd.	—
....		Keystone	15.1	76	17	3.8	1.8	46	1 Fd.	—
		Hannchen	16.6	78	17	1.5	1.8	52	3 CW 2R	T.
		Betzes	21.4	77	17	2.5	2.8	52	3 CW 2R	T.
		Palliser	13.1	84	17	3.0	1.3	48	3 CW 2R	—
Yield differences not significant						Rainfall record incomplete				

HARRY J. SMITH, GOVAN										
9	6	Jubilee	17.5	94	15	1.0	2.0	48	1 Fd.	—
		Keystone	22.5	94	22	2.0	2.0	46	1 Fd.	—
		Hannchen	25.4	94	18	3.0	2.0	54	1 CW 2R	—
		Betzes	27.9	94	15	2.0	3.0	53	2 CW 2R	T.
		Palliser	27.7	94	20	3.0	3.0	50	3 CW 2R	—
Necessary difference—2.47 bushels			Rainfall—May to August—4.07 inches							

JAMES G. GETTIS, SEMANS										
9	7	Jubilee	14.6	93	—	2.0	1.8	47	1 Fd.	—
		Keystone	18.9	93	—	1.0	1.3	45	2 Fd.	T.
		Hannchen	20.2	93	—	2.0	1.8	51	3 CW 2R	T.
		Betzes	24.0	93	—	1.0	1.3	48	3 CW 2R	T.
		Palliser	23.3	93	—	2.0	1.3	46	3 CW 2R	—
Necessary difference—5.24 bushels			Rainfall—May to August—4.07 inches							

DOUGLAS AND BRIAN FORD, ELFROS										
9	10	Jubilee	31.0	90	—	—	—	49	1 Fd.	—
		Keystone	34.2	91	—	—	—	50	1 Fd.	—
		Hannchen	40.3	92	—	—	—	54	2 CW 2R	T.
		Betzes	46.1	91	—	—	—	55	1 CW 2R	—
		Palliser	42.3	91	—	—	—	51	3 CW 2R	—
Necessary difference—6.97 bushels			Rainfall—May to August—3.41 inches							

DONALD W. HOLMSTROM, LESLIE										
9	10	Jubilee	2.9	92	13	1.5	1.0	46	1 Fd.	—
		Keystone	10.4	80	17	1.0	1.0	44	2 Fd.	—
		Hannchen	17.3	89	17	1.0	1.0	51	1 Fd.	T., G.
		Betzes	21.8	84	17	1.8	2.5	52	1 Fd.	T.
		Palliser	14.6	89	17	1.0	1.0	43	3 CW 2R	—
Necessary difference—4.35 bushels			Rainfall—May to August—2.91 inches							

Tests discarded on account of damage by pests, hail, drought or other causes:

9 8 Lorne F. Hall, Wynyard

## WHEAT POOL DISTRICT 10

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Commer- cial grades	Grading remarks
DAVID G. SPENCER, CRAIK										
10	1	Jubilee	33.1	36	18	2.0	2.0	50	1 Fd.	—
		Keystone	24.4	33	19	2.0	2.3	51	1 Fd.	—
		Hannchen	35.3	33	20	2.5	2.3	55	2 CW2R	T.
		Betzes	33.0	32	19	3.0	3.0	55	2 CW2R	T.
		Palliser	32.9	37	21	3.5	2.0	50	3 CW2R	—
Necessary difference—8.19 bushels			Rainfall record incomplete							
LORANCE C. STEPHENS, WISETON										
10	4	Jubilee	—	—	13	2.8	2.5	48	1 Fd.	—
		Keystone	—	—	13	3.5	2.0	50	1 Fd.	—
		Hannchen	—	—	13	3.5	2.0	53	3 CW2R	T.
		Betzes	—	—	14	3.8	2.3	52	3 CW2R	T.
		Palliser	—	—	13	3.8	2.3	49	3 CW2R	—
Test damaged by grasshoppers—yields not reliable			Rainfall record incomplete							
MAURICE R. OLSON, SWANSON										
10	10	Jubilee	—	—	13	1.0	1.0	44	2 Fd.	—
		Keystone	—	—	16	1.0	2.0	47	1 Fd.	—
		Hannchen	—	—	16	2.0	1.0	48	1 Fd.	T.
		Betzes	—	—	17	1.0	2.0	50	3 CW2R	T.
		Palliser	—	—	18	2.0	2.0	45	1 Fd.	T.
Test damaged by grasshoppers—yields not reliable			Rainfall—May to August—3.42 inches							
Tests discarded on account of damage by pests, hail, drought or other causes:										
10	2	Shirley A. Coutts, Tugaskie								
10	3	Fred H. Mielke, Beechy								
10	5	Donald B. Arnold, Birsay								
10	7	Allan E. Sulz, Davidson								
10	9	Charles E. Hubbs, Bladworth								

## WHEAT POOL DISTRICT 11

ARNOLD B. VERMETTE, ELROSE										
11	1	Jubilee	—	81	13	3.0	1.8	46	1 Fd.	—
		Keystone	—	80	16	2.5	2.0	46	1 Fd.	—
		Hannchen	—	80	15	1.8	2.0	51	1 Fd.	T.
		Betzes	—	80	13	2.5	2.8	50	1 Fd.	T.
		Palliser	—	80	16	2.8	2.3	46	1 Fd.	G.
Test damaged by grasshoppers—yields not reliable				Rainfall record incomplete						
DONNA D. HULGAN, GLIDDEN										
11	3	Jubilee	36.3	82	19	2.0	2.0	48	1 Fd.	—
		Keystone	41.6	77	21	3.0	1.0	51	1 Fd.	—
		Hannchen	34.4	83	19	2.8	1.8	54	2 CW 2R	T.
		Betzes	42.7	79	19	2.0	2.0	55	2 CW 2R	T.
		Palliser	38.3	79	21	3.0	2.0	50	3 CW 2R	—
Yield differences not significant				Rainfall—May to August—4.06 inches						
WAYNE WHITFIELD, PLENTY										
11	9	Jubilee	—	—	22	3.0	1.8	48	1 Fd.	—
		Keystone	—	—	22	2.0	2.0	47	1 Fd.	—
		Hannchen	—	—	23	3.5	2.0	51	1 Fd.	T.
		Betzes	—	—	23	3.8	2.0	50	1 Fd.	T.
		Palliser	—	—	23	2.8	2.0	50	3 CW 2R	—
Test damaged by grasshoppers and shattering—yields not reliable				Rainfall—May to August—4.72 inches						
Tests discarded on account of damage by pests, hail, drought or other causes:										
11	6	George L. Benjamin, D'Arcy								
11	7	Marcel J. Dubois, Rosetown								
11	10	Delmer O. F. Patton, Major								

## WHEAT POOL DISTRICT 12

<b>PAUL MARIEN, BIGGAR</b>										
12	1	Jubilee	11.6	—	—	—	—	48	1 Fd.	—
		Keystone	17.9	—	—	—	—	49	1 Fd.	—
		Hannchen	15.8	—	—	—	—	53	2 CW 2R	T.
		Betzes	18.7	—	—	—	—	54	2 CW 2R	T.
		Palliser	14.0	—	—	—	—	49	3 CW 2R	—
Necessary difference—3.45 bushels			Rainfall record incomplete							

# Wheat Pool District 13—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Commer- cial grades	Grading remarks
WAYNE A. JOHNS, ZELMA										
13	2	Jubilee	32.1	88	19	1.3	1.5	50	1 Fd.	—
		Keystone	42.2	82	21	2.5	1.5	51	1 Fd.	—
		Hannchen	31.5	91	20	2.5	2.3	55	1 CW 2R	—
		Betzes	38.3	83	18	3.0	2.0	53	2 CW 2R	T.
		Palliser	42.2	88	22	2.5	2.0	50	3 CW 2R	—
Necessary	difference—3.02 bushels					Rainfall—May to August—3.87 inches				
LARRY H. STAHL, LANGHAM										
13	6	Jubilee	16.7	90	14	1.5	1.0	48	1 Fd.	—
		Keystone	23.8	89	15	1.3	2.0	47	1 Fd.	—
		Hannchen	22.9	89	15	1.5	1.8	53	3 CW 2R	T.
		Betzes	21.8	88	13	1.5	2.0	53	3 CW 2R	T.
		Palliser	22.3	88	17	1.8	2.0	48	3 CW 2R	—
Necessary	difference—3.68 bushels					Rainfall—May to August—3.01 inches				
RAYMOND W. F. CUFF, KINLEY										
13	7	Jubilee	17.3	—	20	4.0	1.8	45	2 Fd.	—
		Keystone	33.1	—	23	3.8	2.0	46	1 Fd.	—
		Hannchen	20.9	—	23	4.0	1.5	49	1 Fd.	T.
		Betzes	25.6	—	21	2.8	1.5	49	1 Fd.	T.
		Palliser	23.2	—	24	5.0	1.5	45	2 Fd.	G.
Necessary	difference—6.37 bushels					Rainfall—May to August—3.28 inches				
BOB BAYDA, SMUTS										
13	8	Jubilee	31.0	78	18	1.0	1.0	48	1 Fd.	—
		Keystone	31.2	75	21	1.0	1.0	49	1 Fd.	—
		Hannchen	30.8	77	22	1.0	1.0	53	2 CW 2R	G.
		Betzes	34.1	76	20	1.5	1.0	54	1 CW 2R	—
		Palliser	34.7	78	22	1.0	1.0	49	3 CW 2R	—
Yield differences not significant						Rainfall—May to August—2.39 inches				
CLARENCE D. KATZENBERGER, LEPINE										
13	9	Jubilee	50.7	104	20	1.3	1.5	50	1 Fd.	—
		Keystone	51.0	104	24	1.0	1.5	50	1 Fd.	—
		Hannchen	51.5	103	21	1.8	2.0	54	2 CW 2R	T.
		Betzes	53.9	104	19	2.3	2.0	53	2 CW 2R	T.
		Palliser	53.4	104	23	2.0	2.0	50	3 CW 2R	—
Yield differences not significant						Rainfall—May to August—2.84 inches				
FRED W. SCHULER, MIDDLE LAKE										
13	10	Jubilee	36.4	—	—	—	—	50	1 Fd.	—
		Keystone	34.1	—	—	—	—	48	1 Fd.	—
		Hannchen	35.8	—	—	—	—	55	2 CW 2R	T.
		Betzes	35.2	—	—	—	—	54	2 CW 2R	T.
		Palliser	35.3	—	—	—	—	52	3 CW 2R	—
Yield differences not significant						Rainfall record incomplete				

# WHEAT POOL DISTRICT 14

WILLIAM J. KING, QUILL LAKE										
14	2	Jubilee	23.0	92	18	1.3	1.5	48	1 Fd.	—
		Keystone	19.5	89	19	2.8	1.8	48	1 Fd.	—
		Hannchen	24.5	91	19	2.5	2.0	51	1 Fd.	—
		Betzes	32.7	90	21	2.0	2.8	50	3 CW 2R	—
		Palliser	27.4	90	20	1.8	2.5	48	3 CW 2R	—
Necessary	difference—6.74 bushels		Rainfall—May to August—3.27 inches							
DONALD H. LOOKER, PLEASANTDALE										
14	3	Jubilee	7.9	71	13	1.3	1.5	47	1 Fd.	—
		Keystone	11.9	70	15	1.5	1.3	46	1 Fd.	—
		Hannchen	10.5	70	15	3.0	1.5	52	1 Fd.	T.
		Betzes	15.7	72	16	5.5	2.8	52	1 Fd.	T.
		Palliser	13.0	71	17	4.5	2.0	49	3 CW 2R	—
Test damaged by animals—yields not included in district summary					Rainfall—May to August—3.41 inches					
EDWARD M. CESLAK, PERIGORD										
14	5	Jubilee	52.2	83	20	1.3	1.0	49	1 Fd.	—
		Keystone	58.7	83	23	1.3	1.0	49	1 Fd.	—
		Hannchen	49.4	82	24	2.3	1.8	55	1 CW 2R	—
		Betzes	34.7	81	22	2.5	2.0	54	1 CW 2R	—
		Palliser	57.9	84	24	1.3	1.0	50	3 CW 2R	—
Necessary	difference—8.47 bushels		Rainfall—May to August—3.60 inches							



# Wheat Pool District 12—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Commercial grades	Grading remarks
PHILIP HUBER, LEIPZIG										
12	3	Jubilee	6.0	—	7	—	2.5	47	1 Fd.	—
		Keystone	11.4	—	8	—	2.3	48	1 Fd.	—
		Hannchen	6.4	—	8	—	2.5	52	3 CW 2R	—
		Betzes	11.6	—	8	—	2.5	51	3 CW 2R	—
		Palliser	13.2	—	8	—	2.8	49	3 CW 2R	—
Necessary difference—3.59 bushels			Rainfall—May to August—3.11 inches							
ROBERT HEIDT, KERROBERT										
12	4	Jubilee	—	—	18	1.3	1.0	45	2 Fd.	—
		Keystone	—	—	21	2.0	1.0	47	1 Fd.	—
		Hannchen	—	—	14	2.3	3.0	52	1 Fd.	T.
		Betzes	—	—	16	2.5	3.0	51	1 Fd.	T.
		Palliser	—	—	16	2.5	2.5	47	3 CW 2R	—
Test damaged by grasshoppers—yield not reliable			Rainfall—May to August—4.20 inches							
RONALD MITZEL, REVENUE										
12	5	Jubilee	14.9	90	15	1.0	1.0	49	1 Fd.	—
		Keystone	19.3	89	17	1.5	1.3	49	1 Fd.	—
		Hannchen	18.9	89	18	1.0	1.0	54	3 CW 2R	T., G.
		Betzes	18.8	89	17	1.5	2.3	52	3 CW 2R	T., G.
		Palliser	17.0	89	18	1.0	2.0	49	3 CW 2R	—
Yield differences not significant			Rainfall—May to August—4.45 inches							
WAYNE N. BROWN, RUTLAND										
12	7	Jubilee	60.7	89	29	1.8	1.8	51	1 Fd.	—
		Keystone	65.9	81	31	2.0	1.0	51	1 Fd.	—
		Hannchen	54.6	86	27	2.5	2.0	56	1 CW 2R	—
		Betzes	60.0	88	25	2.5	3.0	55	1 CW 2R	—
		Palliser	66.0	91	29	2.3	2.0	52	3 CW 2R	—
Yield differences not significant			Rainfall—May to August—5.35 inches							
RUDY P. KEKULA, ARTLAND										
12	8	Jubilee	65.4	—	26	1.0	2.0	50	1 Fd.	—
		Keystone	69.6	—	28	1.0	1.0	50	1 Fd.	—
		Hannchen	63.6	—	27	1.0	2.0	55	2 CW 2R	W.
		Betzes	68.2	—	20	2.0	3.0	54	2 CW 2R	W.
		Palliser	64.6	—	25	1.0	2.0	49	3 CW 3R	—
Yield differences not significant			Rainfall—May to August—6.20 inches							
KAREN E. WISMER, CUTKNIFE										
12	9	Jubilee	34.7	93	19	2.0	3.0	48	1 Fd.	—
		Keystone	34.2	93	20	3.0	2.0	48	1 Fd.	—
		Hannchen	35.9	92	20	3.0	2.0	53	2 CW 2R	T.
		Betzes	37.2	90	17	4.0	1.0	54	1 CW 2R	—
		Palliser	38.3	92	19	5.0	3.0	48	3 CW 2R	—
Yield differences not significant			Rainfall—May to August—6.89 inches							
GARRY COTE, DELMAS										
12	10	Jubilee	40.3	84	23	1.0	1.3	50	1 Fd.	—
		Keystone	37.9	82	23	1.0	1.0	48	1 Fd.	—
		Hannchen	37.6	86	24	2.0	2.0	54	1 CW 2R	—
		Betzes	32.5	84	18	7.0	3.0	53	2 CW 2R	T.
		Palliser	42.5	84	25	6.0	2.0	50	3 CW 2R	—
Yield differences not significant			Rainfall—May to August—5.13 inches							

## WHEAT POOL DISTRICT 13

<b>GARRY B. MUNDELL, LEROY</b>										
13	1	Jubilee	11.9	86	14	2.0	1.0	48	1 Fd.	—
		Keystone	13.6	84	15	2.3	1.5	48	1 Fd.	—
		Hannchen	15.1	86	17	2.0	1.0	53	3 CW 2R	T.
		Betzes	13.8	85	17	2.0	1.5	54	3 CW 2R	T.
		Palliser	13.3	86	17	2.0	2.0	50	3 CW 2R	—
Yield differences not significant			Rainfall—May to August—3.08 inches							

# Wheat Pool District 14—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Commercial grades	Grading remarks
VICTOR J. SHALANSKI, PORCUPINE PLAIN										
14	6	Jubilee	29.7	90	23	1.0	1.0	50	1 Fd.	—
		Keystone	25.2	88	24	1.0	1.3	49	1 Fd.	—
		Hannchen	25.1	90	27	1.5	2.0	54	2 CW 2R	T.
		Betzes	23.7	88	24	1.0	2.0	53	2 CW 2R	T.
		Palliser	24.6	91	24	1.3	2.0	48	3 CW 2R	—
Yield differences not significant			Rainfall—May to August—3.62 inches							
RODNEY J. McLEOD, BJORKDALE										
14	7	Jubilee	26.3	—	—	—	—	49	1 Fd.	—
		Keystone	30.0	—	—	—	—	46	1 Fd.	—
		Hannchen	35.5	—	—	—	—	52	2 CW 2R	T.
		Betzes	41.3	—	—	—	—	51	2 CW 2R	T.
		Palliser	35.5	—	—	—	—	49	3 CW 2R	—
Necessary difference—4.62 bushels			Rainfall—May to August—2.94 inches							
SHELLEY VICKAR, BROOKSBY										
14	9	Jubilee	34.5	80	—	—	1.0	50	1 Fd.	—
		Keystone	37.9	80	—	—	1.0	48	1 Fd.	—
		Hannchen	35.5	80	—	—	2.0	54	2 CW 2R	T.
		Betzes	35.4	80	—	—	2.0	53	2 CW 2R	T.
		Palliser	35.9	80	—	—	1.0	49	3 CW 2R	—
Test incorrectly seeded—yields not included in district summary			Rainfall—May to August—4.59 inches							
AILEEN M. HANDYSIDE, NEW OSGOOD										
14	10	Jubilee	13.1	88	17	1.3	1.3	47	1 Fd.	—
		Keystone	16.4	86	17	1.8	1.7	47	1 Fd.	—
		Hannchen	16.2	87	20	1.8	2.0	53	3 CW 2R	T.
		Betzes	18.3	84	16	1.8	1.3	52	3 CW 2R	T.
		Palliser	18.0	89	21	2.5	1.5	48	3 CW 2R	—
Necessary difference—3.28 bushels			Rainfall—May to August—3.20 inches							
BEVERLEY J. GENTNER, CARROT RIVER										
14	11	Jubilee	65.9	87	22	1.5	1.3	49	1 Fd.	—
		Keystone	65.8	79	25	1.3	1.3	47	1 Fd.	—
		Hannchen	52.5	79	25	2.5	3.0	54	2 CW 2R	T.
		Betzes	65.4	79	22	3.8	3.0	52	3 CW 2R	T.
		Palliser	75.9	87	25	3.0	3.0	49	3 CW 2R	—
Yield differences not significant			Rainfall—May to August—2.58 inches							

# WHEAT POOL DISTRICT 15

DENNIS MacLEOD, CRYSTAL SPRINGS										
15	1	Jubilee	12.0	84	21	1.0	1.0	49	1 Fd.	—
		Keystone	15.9	80	25	1.3	1.8	48	1 Fd.	—
		Hannchen	15.0	84	23	1.0	1.5	52	3 CW 2R	G., T.
		Betzes	12.0	82	23	1.8	1.8	51	3 CW 2R	G., T.
		Palliser	14.6	80	25	2.0	1.3	47	3 CW 2R	—
Yield differences not significant			Rainfall—May to August—2.41 inches							
ROGER DANKU, MESKANAW										
15	1	Jubilee	20.1	—	12	—	—	49	1 Fd.	—
		Keystone	16.8	—	15	—	—	47	1 Fd.	—
		Hannchen	21.9	—	14	—	—	52	3 CW 2R	T.
		Betzes	24.4	—	16	—	—	51	3 CW 2R	T.
		Palliser	27.7	—	17	—	—	48	3 CW 2R	—
Necessary difference—6.99 bushels			Rainfall—May to August—3.16 inches							
ARNOLD H. NELSON, PRINCE ALBERT										
15	3	Jubilee	40.2	93	30	2.0	2.0	50	1 Fd.	—
		Keystone	39.8	91	30	1.0	1.0	49	1 Fd.	—
		Hannchen	43.1	87	29	2.0	2.0	54	2 CW 2R	T.
		Betzes	38.1	84	27	2.0	2.0	53	2 CW 2R	T.
		Palliser	45.2	95	30	1.0	2.0	49	3 CW 2R	—
Yield differences not significant			Rainfall—May to August—2.79 inches							

# Wheat Pool District 15—Continued

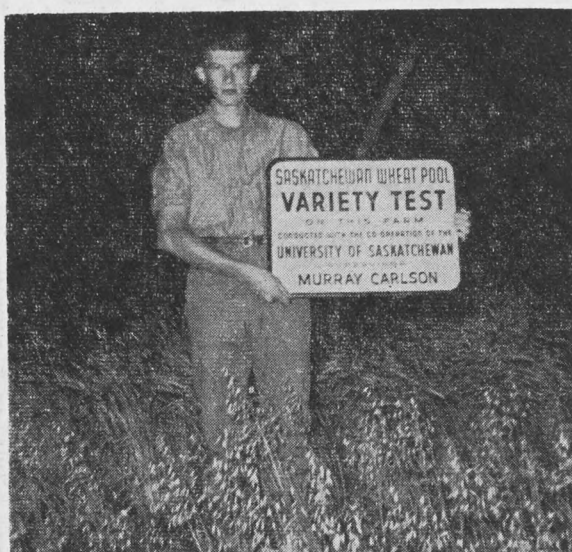
Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Commercial grades	Grading remarks
THEODORE J. REGIER, CARLTON										
15	4	Jubilee	15.8	—	14	4.5	0	49	1 Fd.	—
		Keystone	20.2	—	15	6.0	0	48	1 Fd.	—
		Hannchen	20.0	—	14	6.5	0	52	3 CW 2R	T.
		Betzes	17.8	—	14	4.3	0	51	3 CW 2R	T.
		Palliser	18.9	—	14	5.0	0	48	3 CW 2R	—
Yield differences not significant			Rainfall—May to August—1.27 inches							
MURRAY A. CARLSON, CANWOOD										
15	6	Jubilee	32.6	101	23	3.0	1.3	45	2 Fd.	—
		Keystone	36.2	94	22	2.3	1.0	45	2 Fd.	—
		Hannchen	28.0	100	22	3.8	2.0	53	3 CW 2R	G.
		Betzes	27.7	100	22	4.5	2.3	50	3 CW 2R	G.
		Palliser	34.0	100	23	4.3	2.0	46	1 Fd.	G.
Necessary difference—4.82 bushels			Rainfall—May to August—3.68 inches							
MARILYN E. HERZOG, SHELLBROOK										
15	8	Jubilee	20.5	98	14	5.0	3.0	46	1 Fd.	—
		Keystone	16.4	93	14	4.0	2.0	46	1 Fd.	—
		Hannchen	24.6	93	16	4.0	2.0	50	1 Fd.	G., W.
		Betzes	22.1	93	12	8.0	3.0	46	1 Fd.	G., W.
		Palliser	25.5	93	18	2.0	1.0	45	1 Fd.	G., W.
Yield differences not significant			Rainfall—May to August—2.85 inches							
J. DUNCAN MUNRO, GARRICK										
15	11	Jubilee	5.0	89	—	2.0	1.0	47	1 Fd.	—
		Keystone	6.7	83	—	1.0	1.0	46	1 Fd.	—
		Hannchen	6.9	89	—	2.0	1.0	50	1 Fd.	T., G.
		Betzes	7.8	83	—	1.0	1.0	49	1 Fd.	T.
		Palliser	9.9	83	—	1.0	1.0	46	3 CW 2R	—
Necessary difference—1.82 bushels			Rainfall—May to August—1.74 inches							
Tests discarded on account of damage by pests, hail, drought or other causes:										
15	7	Normand Babin, Debden								

# WHEAT POOL DISTRICT 16

DAVID L. ALEXANDER, DENHOLM										
16	1	Jubilee	12.4	87	20	2.0	1.8	49	1 Fd.	—
		Keystone	20.1	84	23	3.3	1.8	47	1 Fd.	—
		Hannchen	16.4	87	20	2.0	2.8	51	3 CW2R	T.
		Betzes	21.9	83	19	4.0	3.0	51	3 CW2R	T.
		Palliser	22.1	88	23	3.5	3.0	49	3 CW2R	—
Necessary difference—3.75 bushels			Rainfall—May to August—4.07 inches							
CAROL J. STIRTON, NORTH BATTLEFORD										
16	3	Jubilee	29.0	86	26	3.8	2.0	49	1 Fd.	—
		Keystone	35.1	81	27	4.0	1.5	50	1 Fd.	—
		Hannchen	28.3	85	28	3.3	1.0	52	3 CW2R	—
		Betzes	31.3	84	27	4.5	2.5	51	3 CW2R	—
		Palliser	30.7	85	28	4.0	2.0	49	3 CW2R	—
Yield differences not significant			Rainfall—May to August—3.67 inches							
WALTER A. MOSIMANN, EDAM										
16	4	Jubilee	—	94	18	1.8	2.0	47	1 Fd.	—
		Keystone	—	87	22	1.8	1.0	47	1 Fd.	—
		Hannchen	—	94	19	2.0	1.8	53	2 CW2R	—
		Betzes	—	87	20	2.5	1.5	53	2 CW2R	—
		Palliser	—	89	21	2.5	1.8	49	3 CW2R	—
Test damaged by cattle—yields not reliable			Rainfall—May to August—3.31 inches							
KENNETH A. TUPLIN, MAIDSTONE										
16	5	Jubilee	70.6	90	29	2.0	2.0	51	1 Fd.	—
		Keystone	69.1	88	30	1.0	1.0	50	1 Fd.	—
		Hannchen	71.5	91	28	2.5	2.0	55	1 CW2R	—
		Betzes	76.5	91	24	4.0	3.0	54	1 CW2R	—
		Palliser	71.6	91	28	1.5	1.8	52	3 CW2R	—
Yield differences not significant			Rainfall—May to August—6.22 inches							

# Wheat Pool District 16—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Commercial grades	Grading remarks
ROBERT J. BARRADELL, PARADISE HILL										
16	7	Jubilee	58.8	87	31	2.5	1.3	52	1 Fd.	—
		Keystone	71.6	85	33	1.8	1.3	52	1 Fd.	—
		Hannchen	62.6	88	36	2.3	1.5	55	1 CW2R	—
		Betzes	65.3	86	31	1.5	1.3	54	1 CW2R	—
		Palliser	64.4	87	35	2.8	1.8	52	3 CW2R	—
Necessary difference—6.93 bushels			Rainfall—May to August—5.80 inches							
GLORIA E. M. GARRISON, BAPAUME										
16	10	Jubilee	60.2	—	—	—	—	50	1 Fd.	—
		Keystone	48.8	—	—	—	—	48	1 Fd.	—
		Hannchen	53.1	—	—	—	—	53	2 CW2R	T.
		Betzes	55.9	—	—	—	—	54	2 CW2R	T.
		Palliser	55.9	—	—	—	—	50	3 CW2R	—
Yield differences not significant			Rainfall—May to August—3.73 inches							
JAMES B. NEUFELD, DORINTOSH										
16	11	Jubilee	65.4	—	—	—	—	52	1 Fd.	—
		Keystone	83.3	—	—	—	—	50	1 Fd.	—
		Hannchen	54.0	—	—	—	—	54	2 CW2R	T., W.
		Betzes	56.5	—	—	—	—	53	3 CW2R	T., W.
		Palliser	55.2	—	—	—	—	51	3 CW2R	W.
Necessary difference—9.60 bushels			Rainfall—May to August—6.84 inches							



Murray Carlson of Canwood stands between the rows of his barley test.

## ACKNOWLEDGEMENTS

During the year a great number of agencies and individuals contributed in many ways to the success of this testing project. The Saskatchewan Wheat Pool wishes to express appreciation to all those who assisted in any way.

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A special word of appreciation is due to more than three hundred young farm men and women who contributed of their time and energy to help make this testing project a success.



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